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POMONA COLLEGE BULLETIN

ANNUAL CATALOG NUMBER

1969-1970

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Pomona College

Claremont, California 91711

TELEPHONE: (*Area Code 714*) 626-8511

THE POMONA COLLEGE BULLETIN is published
in July, August, October, November, January, April by
Pomona College, Claremont, California 91711. Second-
class postage paid at Claremont, California 91711.

Vol. LXVII

No. 3

August, 1969

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Claremont

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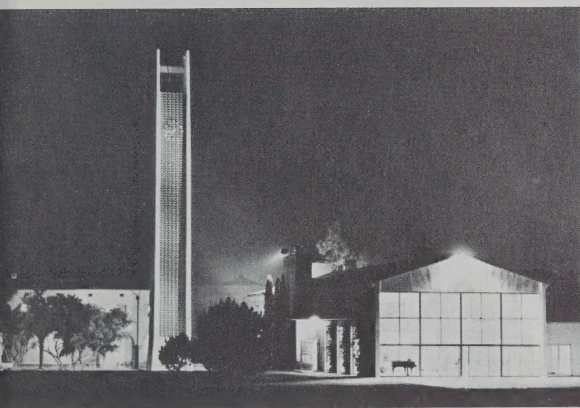
No. 3

August, 1969

Annual Catalog

1969

1970



POMONA COLLEGE

Claremont

California

CALENDAR FOR 1969

JANUARY							FEBRUARY							MARCH							APRIL												
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CALENDAR FOR 1970

JANUARY							FEBRUARY							MARCH							APRIL									
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COLLEGE CALENDAR FOR 1969-1970

First Semester

SEPTEMBER 19, FRIDAY	Faculty meeting, 4:15 p.m.
SEPTEMBER 20, SATURDAY	Residence halls open to new students. First meal served, lunch at noon.
SEPTEMBER 20-23	Program for new students.
SEPTEMBER 22, 23, 24, MONDAY, TUESDAY, WEDNESDAY	Registration.
SEPTEMBER 23, TUESDAY	Regular boarding privileges begin.
SEPTEMBER 25, THURSDAY	First semester classes begin, 8 a.m. Opening Convocation, 11 a.m.
OCTOBER 6, MONDAY	Last day for entering classes.
OCTOBER 18, SATURDAY	Inauguration of President John David Alexander and Founders Day.
OCTOBER 30, THURSDAY	Final day for withdrawal from classes without penalty.
NOVEMBER 1, SATURDAY	Parents Day.
NOVEMBER 14, FRIDAY	Low grade reports due.
NOVEMBER 26, WEDNESDAY	Thanksgiving recess begins, 9 p.m.
DECEMBER 1, MONDAY	Thanksgiving recess ends, 8 a.m.
DECEMBER 20, SATURDAY	Christmas vacation begins, noon.
JANUARY 5, MONDAY	Christmas vacation ends, 8 a.m.
JANUARY 22, THURSDAY	Last day of classes for all students.
JANUARY 24, SATURDAY	Final examinations begin.
FEBRUARY 2, MONDAY	Final examinations end.
FEBRUARY 7, SATURDAY	First semester ends.

COLLEGE CALENDAR FOR 1969-1970

Second Semester

FEBRUARY 8, SUNDAY	Second semester begins.
FEBRUARY 9, MONDAY	Second semester classes begin, 8 a.m. Registration for all students.
FEBRUARY 10, TUESDAY	Continued registration for all students.
FEBRUARY 17, TUESDAY	Second Semester Convocation, 11 a.m.
FEBRUARY 19, THURSDAY	Last day for entering classes.
MARCH 16, MONDAY	Final day for withdrawal from classes without penalty.
MARCH 27, FRIDAY	Low grade reports due.
APRIL 4, SATURDAY	Spring vacation begins, noon.
APRIL 13, MONDAY	Spring vacation ends, 8 a.m.
MAY 22 AND 23, FRIDAY AND SATURDAY	Hour examinations for Seniors only (optional with instructors). No classes for Seniors after May 23.
MAY 27, WEDNESDAY	Last day of classes.
MAY 28, THURSDAY	Comprehensive examinations.
MAY 29, FRIDAY	Final examinations begin.
MAY 30, SATURDAY	Comprehensive examinations.
MAY 31, SUNDAY	Memorial Convocation.
JUNE 6, SATURDAY	Final examinations end.
JUNE 7, SUNDAY	Baccalaureate Service. Commencement.

BOARD OF TRUSTEES

OFFICERS

Robert B. Coons, *Chairman*
Leonard A. Shelton, *Vice-Chairman*

Ranney C. Draper, *Vice-Chairman*
H. Russell Smith, *Vice-Chairman*

TRUSTEES

John David Alexander, *President of the College*

TERM OF OFFICE EXPIRES:

JUNE, 1970

M. Carl Haddon, *Glendale*
Edwin F. Hahn, Jr., *Pasadena*
Mrs. Frank R. Seaver, *Los Angeles*
Leonard A. Shelton, *Claremont*
Charles B. Stauffacher,
New York, N.Y.
James D. Stewart,
Palos Verdes Peninsula

JUNE, 1971

Adam Y. Bennion, *San Marino*
William H. Fellows, *San Marino*
Yale B. Griffith, *Santa Barbara*
Karl B. Rodi, *Beverly Hills*
H. Russell Smith, *San Marino*
Francis M. Wheat, *Chevy Chase, Md.*

JUNE, 1972

Lawrence T. Cooper, *Altadena*
Rollin Eckis, *Bradbury*
Robert V. Edwards, *Arcadia*
Edward Lasker, *Los Angeles*
Louis B. Lundborg, *San Marino*

JUNE, 1973

James M. Gerstley, *Woodside*
Gordon L. Hough, *San Marino*
Mrs. John W. Myers, *Beverly Hills*
Morris B. Pendleton, *San Marino*
Edward E. Tuttle, *Pasadena*

JUNE, 1974

Robert B. Coons, *Los Angeles*
Ranney C. Draper, *Monrovia*
Albert H. MacLeod, *Chicago, Illinois*

ON LEAVE

Maurice H. Stans, *Washington, D.C.*

HONORARY MEMBERS

W. P. Fuller Brawner, *Hillsborough*
George W. Bryant, *San Marino*
Cyril Chappellet, *Pebble Beach*
William W. Clary, *Pasadena*
Charles Detoy, *Pasadena*
John W. Dodds, *Palo Alto*
Charles E. Donnelly, *Los Angeles*
George L. Eastman, *Hollywood*
Mary Clark Eversole, *Santa Barbara*
Paul Fussell, *Pasadena*
Allen F. Hawley, *Claremont*
William B. Himrod, *Los Angeles*
S. Rodman Irvine, *Beverly Hills*
Ernest E. Jones, *Claremont*
Mrs. Valley M. Knudsen, *Glendale*
E. Wilson Lyon, *Claremont*
George R. Martin, *Los Angeles*
Arthur J. McFadden, *Santa Ana*
Mrs. Victor Montgomery,
Beverly Hills
Herbert S. Rempel, *Pasadena*
Fred W. Smith, *Ojai*

EX-OFFICIO MEMBERS

President of Claremont University
Center
President of the Alumni Association
President of the Pomona College
Associates

FORMER PRESIDENTS OF THE COLLEGE

Cyrus G. Baldwin, *1890-1897*
Franklin L. Ferguson, *1897-1901*
George A. Gates, *1901-1910*

James A. Blaisdell, *1910-1928*
Charles K. Edmunds, *1928-1941*
E. Wilson Lyon, *1941-1969*

GENERAL ADMINISTRATION

1969-70

JOHN DAVID ALEXANDER, <i>President</i> B.A., Southwestern at Memphis; D.Phil., University of Oxford.	<i>Sumner Hall</i>
RICHARD T. NIMMONS, <i>Vice-President for Administration and Development</i> B.A., Pomona College.	<i>Sumner Hall</i>
JOHN WHITE HARTLEY, <i>Treasurer and Business Manager</i> B.A., M.B.A., Stanford University.	<i>Pendleton Bldg.</i>
RICHARD C. HILL, <i>Controller</i> B.A., Pomona College; M.B.A., Stanford University.	<i>Pendleton Bldg.</i>
WINSTON C. BLACK, JR., <i>Assistant Controller</i> B.A., Stanford University; M.B.A., Dartmouth College; C.P.A.	<i>Pendleton Bldg.</i>
PAUL L. HARRIS, <i>Assistant Treasurer</i> B.A., LL.B., State University of Iowa.	<i>Pendleton Bldg.</i>
RONALD D. NORDEEN, <i>Director of Estate Planning</i> B.A., Pomona College.	<i>Sumner Hall</i>
RICHARD T. LANGAN, <i>Assistant Vice-President, Estate Planning</i> B.A., Holy Cross College.	<i>Sumner Hall</i>
JOHN M. HARTKE, <i>Assistant Vice-President, Estate Planning</i>	<i>Sumner Hall</i>
WILLIAM D. SEELYE, <i>Director of Alumni Relations</i> B.A., Pomona College.	<i>Sumner Hall</i>
MORTON C. JOHNSON, <i>Director of Annual Giving</i> B.A., Pomona College.	<i>Sumner Hall</i>
GEORGE F. SWEENEY, <i>Director of the News Bureau</i> Student at University of Minnesota.	<i>Sumner Hall</i>
GORDON J. HAZLITT, <i>Coordinator of Publications; Editor of POMONA TODAY</i> B.A., Pomona College.	
F. FRANK LA HORGUE, <i>Assistant to the President</i> B.A., Pomona College; M.B.A., University of California, Berkeley.	<i>Sumner Hall</i>
CENA J. MOORMAN, <i>Food Service Manager</i> Student at Iowa State University.	<i>Frary Hall</i>
ELLMAY R. SOLOSTH, <i>Residence Halls Manager</i>	<i>Blaisdell Hall</i>
GEORGE W. CONN, <i>Campus Engineer</i> B.S., Bradley University.	<i>303 E. First St.</i>

Emeriti

Date denotes beginning of original term of service.

ADMINISTRATION AND FACULTY

- ELIJAH WILSON LYON, C.B.E. 534 W. Twelfth St.
President, 1941; Emeritus, September 1, 1969.
B.A., University of Mississippi; B.A., M.A., B.Litt., University of Oxford; Ph.D., University of Chicago; D.Litt., Occidental College, University of Redlands; L.H.D., Trinity College, Claremont Graduate School; LL.D., Colgate University, University of California, Grinnell College, Claremont Men's College, College of Idaho.
-
- VIRGINIA PRINCEHOUSE ALLEN 660 W. Bonita Ave., Apt. 29-B
Associate Professor of Dramatics, 1930; Emeritus, 1962.
B.A., Pomona College; Graduate Study, Department of Drama, Yale University; M.A., Claremont Graduate School.
- CARL BAUMANN 660 W. Bonita, Apt. 29-D
Professor of German, 1931; Emeritus, 1967.
Ph.D., University of Basel.
- SHELTON L. BEATTY 479 Stanford Dr.
Dean of Students, 1965; Dean of Men, 1949; Emeritus, 1967.
B.A., University of Tennessee; M.A., Cornell University; Ph.D., Stanford University.
- ELVA F. BROWN 852 W. Bonita Ave.
Director of Placement, 1963; Emeritus, 1969.
B.A., M.A., University of California, Berkeley.
- CH'EN SHOU-YI 769 W. Ninth St.
Professor of Chinese Culture, 1941; Emeritus, 1967.
B.A., Lingnan University; Ph.D., University of Chicago; Fellow of the Academia Sinica.
- JAMES WHITE CROWELL P.O. Box 634, Lucerne Valley
Professor of Romance Languages, 1929; Emeritus, 1954.
B.S., M.A., Haverford College; Ph.D., Cornell University.
- MARGARET GAY DAVIES 395 S. Bonnie Ave., Pasadena
Professor of History, 1952; Emeritus, 1967.
B.A., M.A., Ph.D., Radcliffe College.
- ROBERT SIDNEY ELLIS 11768 Preston Lane, Yucaipa
Professor of Psychology, 1931; Emeritus, 1956.
B.A., University of Arkansas; Ph.D., Clark University.
- KENNETH G. FISKE 585 W. Twelfth St.
Professor of Music, 1936; Emeritus, 1967.
B.Mus., M.Mus., American Conservatory of Music; Pupil of Leon Sametini, Jacques Gordon, Otakar Sevcik.
- CHARLES TABOR FITTS 650 W. Harrison Ave.
Professor of Education, 1919; Emeritus, 1948.
B.A., Amherst College; M.A., University of California, Berkeley; Graduate Study, Harvard University.

- ALLEN F. HAWLEY 132 W. Eighth St.
Vice-President, 1938; Emeritus, 1962.
 B.A., Pomona College; Graduate Student, Harvard University; LL.D., Pomona College.
- COLVIN HEATH 750 Indian Hill Blvd.
Associate Professor of Physical Education for Men, 1922; Emeritus, 1956.
 B.A., Pomona College; M.A., Stanford University.
- WILLIAM ATWOOD HILTON 1263 Dartmouth Ave.
Professor of Zoology, 1905; Emeritus, 1944.
 B.S., Ph.D., Cornell University.
- FRANCIS RAYMOND IREDELL 1060 N. College Ave.
Dean of the Faculty, and Professor of Philosophy, 1925; Emeritus, 1959.
 B.A., Pomona College; M.A., Ph.D., Harvard University.
- CHESTER GEORGE JAEGER 4456 Oak Lane
Professor of Mathematics, 1931; Emeritus, 1961.
 B.A., B.S., M.A., Ph.D., University of Missouri.
- AGNES M. JOHNSON 460 W. Tenth St.
Executive Secretary to the President, 1925; Emeritus, 1967.
 M.A., Pomona College.
- ERNEST E. JONES 905 College Ave.
Treasurer, 1909; Emeritus, 1950.
 B.A., Pomona College.
- ELLIOTT CURTIS LINCOLN 472 W. Tenth St.
Professor of English, 1924; Emeritus, 1949.
 B.A., Colby College; M.A., State College of Washington, and Harvard University.
- EARL JAY MERRITT Box 306, Glendora
Professor of Physical Education for Men, 1925; Emeritus, 1961.
 B.A., Pomona College; M.A., Claremont Graduate School.
- WILLIAM V. SHANNON 4397 Palo Verde, Montclair
Treasurer, 1950; Emeritus, 1966.
 B.S., Virginia Military Institute.
- ROBERT LOBINGIER STREHLE 1019 Dartmouth Ave.
Professor of Physical Education for Men, 1923; Emeritus, 1961.
 B.A., Pomona College; M.A., Claremont Graduate School; Graduate study, University of Southern California, University of California, Berkeley, and Stanford University.
- EMILIE ELIZABETH WAGNER 783 W. Tenth St.
Associate Professor of German, 1928; Emeritus, 1957.
 B.A., Smith College; M.A., Pennsylvania State College; Doctorat de l'Université mention Lettres, Toulouse.
- WALTER TICKNOR WHITNEY 710 W. Ninth St.
Professor of Astronomy, 1929; Emeritus, 1954.
 B.S., M.S., Pomona College; Ph.D., University of Chicago.
- ALFRED OSWALD WOODFORD 760 W. Ninth St.
Professor of Geology, 1915; Emeritus, 1955.
 B.A., Pomona College; Ph.D., University of California, Berkeley.

The Faculty

Date denotes beginning of original term of service.

ADMINISTRATIVE OFFICERS

- JOHN DAVID ALEXANDER 345 N. College Ave.
President, 1969.
B.A., Southwestern at Memphis; D.Phil., University of Oxford.
- ERNEST ALBERT STRATHMANN 760 W. Tenth St.
Dean of the Faculty, 1959; Professor of English, 1932.
B.A., M.A., Ph.D., Johns Hopkins University.
- RAY FRAZER 1102 N. College Ave.
Associate Dean of the Faculty, 1968; Professor of English, 1952.
B.A., Pomona College; M.A., Ph.D., University of California, Berkeley.

OFFICES OF DEANS AND REGISTRAR

- JEAN B. WALTON 562 Baughman Ave.
Dean of Students and Dean of Women on the Martha N. Hathaway Fund, 1949.
B.A., Swarthmore College; M.A., Brown University; Ph.D., University of Pennsylvania.
- ROGER J. BELL 156 E. Seventh St.
Dean of Men, 1967.
B.A., University of California at Los Angeles; M.A., Graduate School of Public Affairs, University of Washington; doctoral candidate, University of Washington.
- MASAGO ARMSTRONG 4003 N. Garey Ave., La Verne
Registrar, 1955.
B.A., M.A., Stanford University.
- JOHN B. HOUSLEY Oldenburg Center
Director of Oldenburg Center, 1968.
B.A., University of New Mexico; B.D., S.T.M., Th.D., Union Theological Seminary.
- BEVERLY BRICE 848 W. Bonita
Assistant Dean of Women; Director of South Campus, 1967.
B.A., Whitman College; M.A., Cornell University.
- FORREST A. ALDRICH Clark Hall
Assistant Dean of Men; Director of North Campus, 1967.
B.A., Wheaton College; B.D., San Francisco Theological Seminary.
- DARYL SUE GOLDGRABEN 852 W. Bonita Ave.
Assistant Dean of Students and Director of Student Activities, 1968.
B.A., Cornell University; M.A., Stanford University.

OFFICE OF ADMISSIONS

- JOHN E. QUINLAN 1466 N. Mills Ave.
Dean of Admissions, 1969; Associate Professor of Chemistry, 1958.
B.S., Marquette University; M.S., University of Arkansas; Ph.D., University of Wisconsin.

The Faculty

11

GENE HOWARD BATORI

Assistant Dean of Admissions, 1969.

B.A., St. Mary's College; University Fellow, Georgetown University.

NORMAN P. HINES

Assistant Dean of Admissions, 1969.

B.A., Pomona College; M.F.A., Claremont Graduate School.

FINANCIAL AID AND PLACEMENT

BROOKE ELTINGE SAWYER, JR.

512 Bowling Green

Director of Financial Aid and Placement, 1968.

B.S., University of California, Berkeley; M.S., University of California at Davis;
Ed.D., Stanford University.

MARY SUSAN SPRATT

Assistant Director of Financial Aid and Placement, 1969.

B.A., Reed College; M.A. candidate, Humboldt State College.

LIBRARY

RICHARD D. JOHNSON

Librarian, 1968.

B.A., Yale University; M.A., University of Chicago; M.A., Graduate Library
School, University of Chicago.

HEALTH SERVICE AND COUNSELING

MYRON G. CHAPMAN

537 W. Eighth St.

Physician of The Claremont Colleges, 1961.

Ph.B., B.S., M.D., University of Chicago.

ROBERT W. EDWARDS

723 Purdue Dr.

Physician of The Claremont Colleges, 1962.

B.A., Dartmouth College; M.D., University of Kansas.

JAMES H. MERIWETHER

1042 W. Lake Forest Dr.

Physician of The Claremont Colleges, 1968.

B.A., Princeton University; M.D., University of Pennsylvania.

DOROTHY A. WOOD

219 Brooks Ave.

Physician of The Claremont Colleges, 1967.

B.S., Kansas State University; M.D., University of Oklahoma.

KAREM J. MONSOUR

Director of The Claremont Colleges Counseling Center, 1966.

B.A., M.D., University of Nebraska.

COLLEGE CHURCH

JAMES A. JOSEPH

310 Radcliffe Dr.

Chaplain of The Claremont Colleges, 1969.

B.A., Southern University; B.D., Yale University.

JOHN GREGORY TWEED

Assistant Chaplain of The Claremont Colleges, 1968.

B.A., College of William and Mary; B.D., Yale University.

The Faculty

COMPUTER CENTER

FRED W. WEINGARTEN

Director of Pomona College Computer Center and Director of Computer Services for The Claremont Colleges, 1969.

B.S., California Institute of Technology; M.S., Ph.D., Oregon State University.

CENTER FOR EDUCATIONAL OPPORTUNITY

EDGAR C. RECKARD, JR.

710 N. College Ave.

Director of the Center for Educational Opportunity of The Claremont Colleges, Dean of the Board of Preachers, 1958.

B.A., B.D., Yale University; M.A., Brown University; graduate study, University of Edinburgh.

BERT D. HAMMOND

416 N. Taylor Dr.

Assistant Director for Admissions of the Center for Educational Opportunity of The Claremont Colleges, 1967.

B.Sc., Ohio State University; M.Ed., Cornell University.

WILLIAM R. GANN

1861 Benedict Way, Pomona

Director of Program of Special Directed Studies of the Center for Educational Opportunity of The Claremont Colleges, 1968.

B.M., University of Missouri; M.S., California State College at Los Angeles.

HUMAN RESOURCES INSTITUTE

LOUIS T. BENEZET

831 Dartmouth Ave.

President of Claremont University Center, Acting President of the Human Resources Institute of The Claremont Colleges, 1963.

B.A., Dartmouth College; M.A., Reed College; Ph.D., Columbia University.

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² Absent on leave, second semester, 1969-70.

³ Absent on leave, 1969-70.



Marston Quadrangle

MEMBERS OF THE FACULTIES OF THE CLAREMONT
COLLEGES OFFERING COURSES IN BLACK STUDIES

DONALD K. CHEEK, *Vice President of the Human Resources Institute of The Claremont Colleges and Director of the Center for Black Studies*

M.S.W., Fordham School of Social Service; doctoral candidate, Temple University.

STANLEY CROUCH, *Writer in Residence*

JOHN O. DWYER, *Instructor in History*

M.A.T., Yale University; doctoral candidate, Columbia University.

MERVYN M. DYMALLY, *Part-Time Instructor in Government*

M.A., Sacramento State College.

MARTIN O. IJERE, *Associate Professor of Economics*

Ph.D., University of Freiburg.

AGNES M. JACKSON, *Associate Professor of English*

Ph.D., Columbia University.

BOAZ N. NAMASAKA, *Instructor in History*

M.A. and doctoral candidate, Claremont Graduate School.

MEMBERS OF THE FACULTIES OF THE CLAREMONT
COLLEGES OFFERING COURSES IN MEXICAN-AMERICAN STUDIES

RONALD W. LOPEZ, *Director of the Center for Mexican-American Studies*

M.A., University of California at Los Angeles.

ELIA M. IBARRA, *Instructor in Spanish*

M.A. and doctoral candidate, University of California at Riverside.

PHILIP KOLDEWYN, *Assistant Professor of Spanish*

Ph.D., University of California, Berkeley.

CARLOS MUNOZ, JR., *Lecturer in Political Studies*

M.A., California State College at Los Angeles.

MANUEL RAMIREZ, III, *Associate Professor of Psychology*

Ph.D., University of Texas.

HELIA ALPUCHE DE SHELDON, *Instructor in Spanish*

M.A., California State College at Fullerton; doctoral candidate, University of California at Irvine.

JAMES SENA RIVERA, *Part-Time Instructor in Sociology*

B.A., University of California, Berkeley; graduate study, University of California at Los Angeles.

MEMBERS OF THE FACULTY OF THE CLAREMONT
GRADUATE SCHOOL AND UNIVERSITY CENTER
OFFERING COURSES AT POMONA COLLEGE

GEORGE S. BLAIR, *Professor of Government*

Ph.D., Northwestern University.

HOWARD R. BOWEN, *Professor of Economics*

Ph.D., University of Iowa.

CHARLES S. CAMPBELL, JR., *Professor of History*

Ph.D., Yale University.

SHERWIN CARLQUIST, *Professor of Botany*

Ph.D., University of California.

WILLIAM R. FIELDER, *Associate Professor of Education*

Ed.D., Stanford University.

MICHAEL R. HARRIS, *Assistant Professor of History and Higher Education*

Ph.D., Stanford University.

JOHN A. HUTCHISON, *Professor of Philosophy of Religion*

Ph.D., Columbia University.

STANLEIGH H. JONES, *Assistant Professor of Japanese Language*

Ph.D., Columbia University.

ROBERT ALLEN KEITH, *Professor of Psychology*

Ph.D., University of California, Berkeley.

ALFRED R. LOUCH, *Professor of Philosophy*

Ph.D., Columbia University.

WILLIAM J. NIVEN, *Professor of History*

Ph.D., Columbia University.

FATHER JOHN J. O'FARRELL, *Lecturer in Education*

Ph.D., Fordham University.

HELEN M. SMITH, *Associate Professor of Music and Music Librarian*

Ph.D., Indiana University.

JOHN M. VICKERS, *Associate Professor of Philosophy*

Ph.D., Stanford University.

ROBERT E. WILLIAMSON, JR., *Associate Professor of Mathematics*

Ph.D., University of California, Berkeley.

FATHER ELEUTHERIUS WINANCE, *Visiting Professor of Philosophy*

Ph.D., University of Louvain.



President John David Alexander (right) with Dr. E. Wilson Lyon, President of Pomona College 1941-1969.

FACULTY COMMITTEES 1969-1970

First Person Named is the Committee Chairman

Administration — President, Dean of the Faculty, Dean of Students, Beckner (1970), Cooke (1970), Douglass (1971), Frazer (1971), Poland (1972), R. N. Smith (1972).

(The date after a name indicates the expiration of an elective term.)

Admissions — Quinlan, Bentley, Herman, Loucks, Ogier, Palmer, Sawyer, Sheirich, Stoddard, Voelkel, Zenger, and student representatives.

Athletics:

Faculty Committee — Voelkel, Bell, Bentley, Faust, Hales, Yale, Zenger.

Advisory Council to the Director — Voelkel, Bell, Hales, Malan, Quinlan, three students, and two alumni representatives.

Representatives on the Southern California Intercollegiate Athletic Conference — Malan, Voelkel, Yale.

Classification — Frazer, Armstrong, Baird, Brueckner, Chrisman, Gabriel, Hughes, Kohn, Learnihan.

College Radio Station — Russell, Bell, Blanchard, Flynn, Jordan, Sweeney, Yale, and student representatives.

Computer — Fowler, Bentley, Cooke, Douglass, Hansch, Mitescu, Quinlan, Weingarten.

Courses of Study — Strathmann, Chrisman, Cohen, Cornell, Erickson, Frazer, Gleason, Merrill, Mulhauser, H. Young, and four students.

Financial Aid — Sawyer, Aldrich, Andrus, Fowler, Leggewie, Malan, H. B. Smith, Whedbee.

Honors — Sontag, Baden, Brueckner, Hales, Kemble, Kohn, Mitescu, Tolsted, Tugwell, and student representatives.

Library — Poland, Baird, Barnes, Richard Johnson, Leggewie, McDonald, Russell, R. N. Smith.

Medical Sciences — Beilby, Andrus, Bell, Chapman, Hansch, Ryerson, Tolsted.

Oldenborg Center Council — Housley, Haeger, Poland, Walton, H. Young, and student representatives.

Pre-Law — Gleason, Bracher, Flynn, Wykoff.

Public Events — Vieg, Holmes, Housley, Ogier, Palmer, Phillips, Ricapito, and student representatives.

Student Advising — Bell, Brice, Cornell, Goldgraben, King, Levy, Lowery, McDonald, Tugwell, Voelkel, Vogler, and four students.

Student Affairs:

Each of the following committees is composed of faculty and students. The faculty members listed constitute the Student Affairs Committee, with Mr. Faust as Chairman.

College Council — Faust, Andrus, Bell, Frazer, Hales, McGilvray, McPherson, Tugwell, Walton.

Residence Halls Council — Flynn, Lowery, Russell, Vieg.

Judiciary Council — Breitenstein, Chrisman, Crosby, Jordan, Sheirich, Whedbee.

Study Abroad — Housley, Armstrong, Goldgraben, Haeger, P. Johnson, Learnihan, Merrill, Mulhauser, Sheirich, and student representatives.

Summer Fellowships and Research Grants — Frazer, Amrein, Kemble, McDonald, Miller, Mulhauser, Pronko.

Adviser to Foreign Students — Housley.

Advisers on Graduate Scholarships and Fellowships — General Adviser, Kemble; Danforth Fellowships, Voelkel; Rockefeller Brothers Fellowships, Whedbee; Rhodes Scholarships and Marshall Scholarships, H. B. Smith; Thomas J. Watson Fellowships, Kemble.

Adviser on Preparation for Teaching — Faust.

Representatives on Claremont Colleges Committees

Auditorium Events — Bernstein.

Library Council — Poland.

Religious Activities — Douglass, Sontag.



Philosophy Seminar



The "Genesis" mural, by Rico LeBrun

The College

POMONA COLLEGE is an independent, coeducational institution of arts and sciences. The enrollment is restricted to approximately 1250 students, of whom 700 are men and 550 are women. The student body in 1968-69 included representatives from forty-three states and twenty-four foreign countries. The ratio of teaching faculty to students is approximately one to eleven.

The College was incorporated on October 14, 1887, by a group of early settlers who wanted to see in Southern California a "Christian College of the New England type." Under the leadership of the Reverend Charles B. Sumner, a devoted and self-sacrificing group was appointed to membership on the first Board of Trustees by the General Association of Congregational Churches of Southern California. The original trustees were: Henry K. W. Bent, Nathan W. Blanchard, Anson Brunson, Elwood Cooper, James T. Ford, James H. Harwood, Dexter D. Hill, Theodore C. Hunt, George W. Marston, John K. McLean, Henry A. Palmer, Seth Richards, Charles B. Sheldon, Charles B. Sumner, and Andrew J. Wells.

Instruction was begun in September, 1888, in a small rented house in the city of Pomona. The following January an unfinished hotel (now Sumner Hall) in nearby Claremont, together with considerable land adjacent, was given to the College and the work was transferred there. Although this location was originally regarded as temporary, Claremont became the permanent home of the College. However, the name of "Pomona College" had become so definitely fixed to the institution that it was retained.

The College met a need for higher education in Southern California, and after the initial years its growth was constant. The first class was graduated in 1894. The first chapter of Phi Beta Kappa in Southern California, and the third in the entire state, was established at Pomona in 1914.

With the freedom characteristic of Congregational organization, Pomona was soon entrusted with its own government and in 1903 was freed from any organic association with the church of its origin. Today the Board of Trustees is a self-perpetuating body, free from ecclesiastical control, but pledged under its charter to maintain the institution as truly Christian, though nonsectarian.

The courses of study include a full academic program in the social sciences, the natural sciences, and the humanities. The curriculum is planned to give a comprehensive understanding of man and the universe in which he lives, rather than technical training in highly specialized fields. The College believes that the best preparation for life is liberal education, and it aspires to educate men and women for leadership in the professions, in business, and in civic affairs.

Pomona is an academic community in which faculty and students meet easily and frequently and students share the privilege of a residential campus. To this end, the College maintains a large faculty in relation to its student body and provides beautiful and commodious residences and dining halls. The residential organization of undergraduate life at Pomona is one of the most important features of the total educational program.

The College owes the development of the campus and the growth of its financial resources to the generosity of patrons, friends, and alumni. As an independent institution, without assistance from any governmental or church body, Pomona must rely upon gifts for the expansion of its program and for the increase of its endowment, upon which depends the financial stability of the college. The book value of Pomona's total assets in May, 1969, was over \$69,106,000, of which \$20,611,000 is in Plant, and \$22,728,000 in Endowment, the income from which is available for the current educational program of the College. Annuity and Life Income Contract funds, on which the income is paid to donors during their lifetime, total \$22,621,000.

Because of these benefactions and current gifts by alumni, parents, friends, and business corporations, the charge for tuition and fees covers only about sixty per cent of the actual cost of a Pomona education. The College welcomes the assistance of parents who feel able to pay the full cost of their children's education, or a larger proportion than is covered by present charges. The Parents Fund, which invites annual contributions, provides a channel for such assistance, as does the Alumni Fund, for parents who themselves attended Pomona College.

ENDOWED PROFESSORSHIPS

From its earliest years Pomona has received endowment gifts for professorships in designated fields. Today the income from each of these funds pays a significant portion of the salary of the professor who holds the chair, and the most recent gifts are sufficient to defray the full salaries of the recipients.

The College is deeply grateful to the generous benefactors who have made these permanent contributions to its academic advancement.

The first endowment given to Pomona College was the Nancy M. Lyon Professorship in Biblical History and Literature, which was established by Nancy M. Lyon, of Munson, Massachusetts, as a professorship to be held by Charles Burt Sumner, a leader in founding the College.

The Joseph N. Fiske Professorship in Mathematics was established in 1903 by Charlotte M. Fiske in honor of her husband.

The Stedman-Sumner Professorship in Economics was established by Charles Burt Sumner and endowed over the years by his son, George S.

Sumner, Professor of Economics from 1897 to 1922, and Controller of the College from 1922 to 1941.

The Frank P. Brackett Professorship in Astronomy, which honors Pomona's original faculty member in this field, was established by a large number of alumni as a part of the 1914 campaign.

The Henry Kirke White Bent Professorship in Botany was established by Mrs. Willard George Halstead in memory of her father, a founding trustee of the College. Mrs. Halstead also established in 1915 a professorship in Zoology, named in honor of her husband.

The John Knox McLean Professorship in Religion was established by friends in honor of John Knox McLean, a founder of the College and a member of the first Board of Trustees. The fund has been generously augmented by his daughter, the late Mary McLean Olney, Dean of Women at Pomona in 1898-99, and a former trustee.

The Edwin Clarence Norton Professorship in Classics was established in 1910 by Mr. and Mrs. Charles M. Pratt, of New York, in honor of Edwin C. Norton, the first dean of Pomona College.

The Martha N. Hathaway fund for the Chair of Dean of Women was established in 1914 by gifts of Miss Martha N. Hathaway.

The Warren Finney Day Professorship in History, named in honor of the Minister of the First Congregational Church of Los Angeles, was endowed in 1914 by the son and parishioners of the Reverend Warren Finney Day.

The Carnegie Professorship in Chemistry was established in 1920 by a gift from the Carnegie Corporation of New York.

The Phebe Estelle Spalding Professorship in English was established by gifts of George H. Bixby, Martha N. Hathaway, and Silsby M. Spalding in honor of Phebe Estelle Spalding, Professor of English at Pomona College, 1889-1928.

The Robert C. Denison Professorship in Philosophy was established in 1924 by William A. Watts, of New Haven, Connecticut, in honor of Robert C. Denison, Professor of Philosophy at Pomona from 1920 to 1936.

The Seeley W. Mudd Professorship in Physics was endowed in 1925 by Col. Seeley W. Mudd, trustee of Pomona from 1914 to 1926, and a founder of the plan for The Claremont Colleges.

The Henry Snyder Professorship in Sociology was established in 1937 by bequest of Mr. Henry Snyder of Los Angeles.

The David J. Baldwin Professorship in Music was established in 1958 by Mrs. Myrna B. Freman, in memory of her father.

The William A. Johnson Memorial Professorship for a visiting professor in government was established in 1959 by friends of the late Mr. Johnson, a trustee of Pomona, 1949 to 1956.

The Arthur M. Dole and Fanny M. Dole Professorship in English, a fully endowed chair, was established in 1962 through the bequests of Arthur M. Dole, '96, trustee from 1908 to 1955, and Mrs. Dole.

The John Sutton Miner Professorship in History was established in 1965 by the bequest of Mrs. Susan E. Miner, in memory of her son, of the class of '36, who was killed in World War II.

The Elden Smith Professorship in Economics, honoring a distinguished banker and trustee of Claremont Graduate School and University Center, was established in his memory in 1966 by his brother and sister-in-law, Mr. and Mrs. H. Russell Smith of San Marino.

The William Atwood Hilton Professorship in Zoology, honoring a distinguished professor of zoology who had served the College many years, was established in 1967 by friends and alumni, many of them in the medical profession.

The Blanche and Frank R. Seaver Professorship in Science was established in 1969 by the Board of Trustees of Pomona College in recognition of the strength and importance of their joint work in promoting excellence in education, of which the Seaver Science Center is a physical expression.

The E. Wilson Lyon Professorship in the Humanities honoring the sixth president, who served Pomona College with great distinction for twenty-eight years, was established upon his retirement in 1969 by trustees, alumni, friends, and David J. Fishman, a member of the 1969 graduating class.

ENDOWED FUNDS FOR SUPPORT OF INSTRUCTION

The College enjoys the help of a number of other endowed funds, some of which have been designated for the benefit of specific departments:

The Elizabeth McLeod Geiger Fund for the Department of Music was established in 1959 by the late Hector Geiger in memory of his wife.

The Eva C. and Clyde A. Matson Fund for the Department of Art was established in 1962 by the late Mr. and Mrs. Matson of La Jolla.

The Warren Lloyd Smith Fund for the Men's Physical Education Department was established in 1965 by Mrs. Raymond E. Smith, in memory of her son.

The Albert D. Stauffacher Fund for the Department of Religion was established in 1967 by Charles B. Stauffacher to honor his father.

The Viola Minor Westergaard Fund for the Department of Art was endowed in her memory in 1938 by her parents, Captain and Mrs. Robert Minor, and her husband, Waldemar Westergaard, Professor of History at Pomona College from 1916 to 1925, and subsequently at the University of California at Los Angeles.

The Waldemar Westergaard Fund for the Department of History was endowed in 1963 by a bequest of Professor Westergaard.

The securing of funds for instruction is one of the major aims of Pomona's current Advancement Program, and the following endowed funds have recently been established for the support of faculty salaries:

The Thomas P. McCrea and Lou Whipple McCrea Fund, established in 1961 by Mr. John McCrea of Sonoma and the late Mrs. McCrea, in honor of Mr. McCrea's parents.

The Thorkild R. and Valley M. Knudsen Fund, established in 1964 by Mrs. Knudsen of Glendale and the late Mr. Knudsen.

A fund established in 1964 by Mrs. Louise Maxwell Wilson, '30, of Rancho Santa Fe.

The Times-Mirror Fund, established in 1963, a gift of the *Los Angeles Times*.

The May McManus Oberholtz Fund, a bequest in 1961 of the late Mrs. Oberholtz of Los Angeles.

LIBRARY

The Honnold Library is the central library serving the students and faculty of The Claremont Colleges. Since 1952, when the Honnold Library building was opened, most of the books acquired by the colleges have been integrated into one large collection available to all members of the academic community.

In addition to the central library building, six science libraries (botany, chemistry, geology, mathematics, physics-astronomy, and zoology) serve specific departmental needs at Pomona College. A Joint Science Library on the campus of Harvey Mudd College serves the science library needs of that college, the Claremont Graduate School, and the Joint Science Program of Claremont Men's College, Pitzer College, and Scripps College. The Educational Resource and Information Center in Harper Hall contains a curriculum library and the George G. Stone Center for Children's Books. The Ella Strong Denison Library of Scripps College, although not a part of the Honnold Library system, is open to all students and faculty. The library resources of The Claremont Colleges total approximately 650,000 volumes.

Close working relationships are maintained with the libraries of the several affiliated institutions in Claremont: the Francis Bacon Foundation, the Rancho Santa Ana Botanic Garden, the College Student Personnel Institute, and the School of Theology at Claremont. There are thus available to the academic community in Claremont total library resources of approximately 785,000 volumes.

The Honnold Library possesses extensive holdings of journals and currently receives 4,200 periodicals and 75 newspapers. Through Pomona College, the Honnold Library is a depository for publications issued by the United States Government and by the State of California. It possesses as well strong collections of the official publications issued by the United Nations, other international agencies, and Great Britain. The library has a large collection of materials in microtext format, including some 10,000 reels of microfilm and 200,000 sheets of other forms of microtext. Included in these holdings are long runs of newspapers, early printed books from England and the United States, and the anthropological source materials in the Human Relations Area Files.

There are numerous special collections in the library. Among them are the Asian Studies collection; the Oxford collection, a group of books about the University and the City of Oxford; the Italian Renaissance collection, focussed on the life and work of Angelo Poliziano.

Books for the Library, while catalogued together, are purchased and owned by the individual colleges. Total Pomona holdings in the Honnold Library and in branch libraries number 205,000. Some 16,000 art prints, slides and photographs, 3,000 sound recordings, and 5,000 maps are housed in other academic buildings. Special Pomona collections housed in the Honnold Building are the Mason California, the Wagner North Pacific, the McCormick Korean Libraries, the William F. McPherson Library of Western America, the Waldemar Westergaard Collection of Baltic area history, and the Carnegie and Viola Minor Westergaard Art Collections.

Two additional buildings will be added soon to the Honnold Library system. The Seeley Wintersmith Mudd Memorial Library, under construction next to the Honnold Library, will extend the services and collections of the central library when it is opened in 1970. The Joint Science Library will receive a new home when the Sprague Library, the central element in Project Libra at Harvey Mudd College, is built.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin*, which is published six times a year. These include the *Annual Catalog*, the *Report of the President*, and *Pomona Today*, the alumni magazine.

LECTURE FOUNDATIONS

The Joseph H. Johnson Foundation, endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of bringing distinguished lecturers to Pomona for a protracted stay and intimate participation in college life.

The Clark Foundation, established by Mr. Arthur O. Clark, makes it possible for the College to offer a lecture or course of lectures in the general field of religion.

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, provides for a lecture by some prominent worker in the field of Christian Missions.

The Fred J. Robbins Lectureship, named in honor of its donor, enables the College to bring to the campus at appropriate periods an outstanding scholar in the field of chemistry.

THE CLAREMONT COLLEGES

Pomona College is the original institution of The Claremont Colleges, a group of six affiliated colleges, of which the other members are Claremont Graduate School and University Center, Scripps College, Claremont Men's College, Harvey Mudd College, and Pitzer College. Each college serves its own distinctive purposes, determines its own policies and requirements, possesses legal autonomy, and has its independent board of trustees and faculty. However, the six institutions cooperate in their academic programs and in the use of certain common facilities. Within the limitations described on pages 95-96 and 109-111, the undergraduate colleges open their classes without tuition charges to students in the other undergraduate institutions. Selected courses in the Claremont Graduate School are open to Seniors in the undergraduate colleges. The combined resources of the libraries, the college church, the well-equipped medical dispensary and infirmary, the counseling center, the central business office, and the technical services are available to all the colleges.

The group, which represents a combination of English and American practices, arose from the desire of Pomona College to maintain for itself the advantages of a small college and at the same time to provide at Claremont an educational opportunity for the increasing numbers of young men and women who were seeking admission to the College at the end of World War I.

Under the leadership of the Pomona trustees, the institution now incorporated as Claremont Graduate School and University Center was established on October 14, 1925, as the first step in the inauguration of the new plan. It assumed the responsibilities of a central coordinating agency, the direction of graduate instruction for The Claremont Colleges,

and the founding of new institutions, as they might be required. In addition to its own appointees, the faculty of the Claremont Graduate School also includes most members of the faculties of the undergraduate colleges.

An early objective of the group plan was the establishment of a college for women. Scripps College, incorporated in 1926, and named in honor of Miss Ellen Browning Scripps, whose generosity and vision made it possible, was opened as a residence college for women. From the beginning, the main feature of its curriculum has been a unified sequence of courses in the humanities. The enrollment is approximately 500.

Claremont Men's College, the third undergraduate institution, was established in 1947 as a liberal arts college educating men for leadership in business or government. The current enrollment is 800 students.

Harvey Mudd College, named in memory of the President of the Board of Fellows of Claremont Graduate School and University Center, was incorporated as the fourth undergraduate college in 1955. The college offers a program in basic science and engineering for approximately 370 students.

Pitzer College, a college for women, emphasizing the social sciences, was established in 1963 through the generosity of Russell K. Pitzer, a Pomona alumnus of the class of 1900. Instruction was begun in 1964. The college has an enrollment of 640.

The joint services of The Claremont Colleges are administered by a Council of the Presidents, who in rotation serve annual terms as chairman of the Council and also Provost of The Claremont Colleges. The President of Harvey Mudd College will serve as Provost for 1969-70.

The combined Boards of Trustees of the colleges constitute the Board of Overseers, an advisory body on the operation of the group as a whole. Printed copies of the Constitution of The Claremont Colleges may be obtained through the office of the president of any of the institutions.

SUMMER SESSION

The Claremont Summer Session is conducted by Claremont University Center. It is organized in a term of six to eight weeks and offers a program of undergraduate and graduate courses. A bulletin describing summer work is published annually in February and copies may be obtained from the Summer Session Office, McManus Hall, Claremont, California.

LOCATION

Pomona College is exceptionally fortunate in its location and its surroundings. The city of Claremont, which has grown up around Pomona and The Claremont Colleges, is an academic, residential com-

munity of distinction. Although Claremont is a quiet college town of some 24,000, it is but thirty-five miles from the center of Los Angeles by the San Bernardino Freeway, on which there is convenient bus service.

Transcontinental rail service for Claremont is provided by the Santa Fe, the Union Pacific, and the Southern Pacific Railways. Stations for all three lines are in Pomona, a city of 90,000, only four miles away.

The College is conveniently accessible by air. An increasing number of airlines now serve the Ontario International Airport, only ten miles from the campus. There is frequent local helicopter and bus service to the Los Angeles International Airport, fifty miles to the west.



Christmas Concert in Bridges Hall of Music

The Campus

POMONA COLLEGE has a campus of great beauty and a modern and well-equipped physical plant. The College occupies approximately one hundred and thirty acres, of which sixty are included in Blanchard Park, the gift of Nathan W. Blanchard, approximately ten in Alumni Athletic Field, and sixty in the campus proper. The College centers on Marston Quadrangle, built and endowed by George W. Marston, 1850-1946, distinguished citizen of San Diego, an original trustee of Pomona and for many years President of the Board.

Other specially landscaped areas are Memorial Court, honoring certain former members of the College, and Harwood Garden on the men's campus, which honors the late Frank H. Harwood, '98, a trustee and former President of the Board. The Stover Memorial Walk, from College Avenue to College Way, honors the memory of the late Clarence T. Stover, '21, a trustee and chairman of the Buildings and Grounds Committee.

The College Gates on Sixth Street, constructed in 1914, were the gift of the late William S. Mason. Their inscriptions, written by the late President Blaisdell, have inspired subsequent generations of Pomona students.

Pomona College has thirty-five buildings of its own, and also shares twelve other buildings which Claremont University Center operates for all The Claremont Colleges.

ADMINISTRATIVE AND GENERAL ACADEMIC BUILDINGS

Mary L. Sumner Hall, a hotel which in 1889 became the original building of the college, was removed from its first site in 1922, remodeled for administrative and faculty uses, and named in memory of the wife of Rev. Charles B. Sumner, LL.D., one of the Founders of Pomona.

Holmes Hall, the first academic building, erected by the college in 1893, is a memorial to Cyrus W. Holmes, Jr., of Monson, Massachusetts. Reconstructed in 1916, it is now devoted to recitation rooms, departmental offices, and an auditorium seating 750. A small addition for a Drama Workshop was built in 1957.

The Andrew Carnegie Building, a gift of Mr. Carnegie, which served as the College Library from its construction in 1908 to June, 1952, was reconstructed in 1952 for use as a classroom and office building for the social sciences. The building was remodeled throughout and air-conditioned in the summer of 1969.

Pearsons Hall, the gift of Dr. D. K. Pearsons in 1898, and for many years the home of the Departments of Physics and Mathematics, was

renovated and reorganized during the summer of 1958 as a classroom and office building for the Departments of History, Philosophy, and Religion.

Mason Hall, the gift of the late W. S. Mason, which served as the Pomona chemistry building from 1922 to February, 1965, has been reconstructed as a classroom, office, and laboratory building for the Departments of Modern European Languages, Chinese Language and Literature, and Psychology. The renovated building houses the Beverly M. Stauffer Language Laboratory, the gift of the John and Beverly Stauffer Foundation, the Henrietta V. Frank Center for the study of Chinese Language and Literature, and laboratories in physiological, child, and social psychology.

The Claremont Colleges maintain a joint Business Office in the Pendleton Business Building, constructed in 1959, and named in honor of Mr. and Mrs. Morris B. Pendleton, '22.

Harper Hall, built in 1932 and reconstructed in 1968, and Harper East, constructed in 1966, both honoring the late Jacob C. Harper, house the administrative and academic offices of The Claremont Graduate School and University Center.

The colleges are served by a central heating plant and by a common shops and maintenance department which are situated on Pomona property on the south side of Blanchard Park.

ART, MUSIC, AND DRAMA BUILDINGS

Rembrandt Hall, built in 1914 and enlarged in 1937, is the original art building of the College. Since 1958-59, it has been devoted primarily to studio purposes.

The Gladys Montgomery Art Center, named for Mrs. Victor Montgomery, which was opened in September, 1958, amplified our art facilities by providing sculpture studios, a lecture hall, exhibition galleries, and departmental offices. A major addition to the Center, a gift from Mrs. Montgomery, was opened in the spring of 1968.

Mabel Shaw Bridges Hall of Music, given by Mr. and Mrs. Appleton S. Bridges of San Diego in 1915, in memory of their daughter who died while a student at Pomona College, has been since that time the home of the Music Department and the center of musical activities of the College. The auditorium, which seats 700, is in frequent use for concerts and recitals by students, faculty, and guest artists.

A new music building, to supplement the historic facilities of Bridges Hall, is under construction and will be placed in use in February, 1970. The new building will include offices and studios for the department, rehearsal rooms for the choral groups and the orchestra, the music library, listening rooms, and the college radio station, KSPC. With Bridges Hall, Rembrandt Hall, and the Montgomery Art Center, it will form a fine arts quadrangle.

Mabel Shaw Bridges Auditorium, also the gift of Mr. and Mrs. Appleton S. Bridges in memory of their daughter, was constructed in 1931. It has a seating capacity of 2600, and is held and administered by Claremont University Center on behalf of The Claremont Colleges.

The Garrison Theater, erected through the generosity of Mr. and Mrs. Robert H. Garrison and other donors and opened in 1963, provides a center for dramatic productions by and for all The Claremont Colleges.

The Greek Theater, an open-air amphitheater located in Blanchard Park, was built in 1910 and extensively reconstructed in 1960-61.

SCIENCE BUILDINGS

The Seaver Science Center at Pomona College comprises three outstanding laboratories constructed from 1958 to 1965. The three buildings and all their equipment were given and endowed by Frank Roger Seaver (1883-1964), Pomona alumnus and trustee. Because of Dr. Seaver's vision and magnificent generosity, his Alma Mater enjoys what many have called the nation's finest center for undergraduate education in science.

The Robert Andrews Millikan Laboratory for physics, mathematics, and astronomy, completed in 1958, was the first building of the Seaver Science Center. It contains equipment for the study of atomic and molecular physics, electronic and computer laboratories, a nuclear physics section incorporating a 23-inch cyclotron for student use, and a Spitz planetarium.

The Seaver Laboratory for biology and geology was opened in 1959. Its equipment includes electron-microscopes, a radioactive-isotope laboratory, experimental aquaria for marine life study, a controlled temperature animal house, X-ray spectrograph for rapid chemical analysis of rocks and minerals, a gravity meter for measuring earth tides, an experimental laboratory in which clay is used to simulate the earth's crust, and a rock-slicing room with diamond saws.

The Seaver Laboratory for chemistry, completed in January, 1965, fulfills the donor's wish to produce the best possible laboratory and contains many unusual features and facilities. The basement houses a neutron generator room with five-foot concrete walls to block out heavy radiation, shop facilities, a glass blowing laboratory, and rooms for special equipment such as infrared and ultraviolet spectrophotometers, mass spectrometer, nuclear magnetic resonance equipment. Closed-circuit and commercial television, slide and movie projectors, and micro-film facilities are provided.

An IBM System/360 Model 40 computer was installed in the Seaver Science Center during the summer of 1965 and is available to all students and faculty. Later additions give Pomona and The Claremont Colleges an exceptional computer center.

Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, has served the Department of Astronomy since 1908. A second building in the Observatory area, the gift of Mr. Frank R. Seaver, '05, was constructed in 1950. The dome houses the Clara Whitney Shatto Reflector Telescope, and the main floor contains classrooms and a library.

Crookshank Hall, the gift of Dr. D. C. Crookshank in 1922, is the home of the Departments of Botany and Classics. The extensive laboratories of the Botany Department include a working herbarium and a library. The main herbarium and library, housed jointly with the Rancho Santa Ana Botanic Garden, are among the most important in Western America.

HONNOLD LIBRARY

The Honnold Library, which was given by Mr. and Mrs. William L. Honnold to Claremont Graduate School and University Center for The Claremont Colleges, since 1952 has housed the Pomona College Library along with the libraries of Claremont Men's College, the Claremont Graduate School, a part of the Scripps College Library, since 1956 the library of Harvey Mudd College and since 1963 the library of Pitzer College. For information on the resources of the Honnold Library see pages 35-36.

PHYSICAL EDUCATION AND ATHLETIC FACILITIES

The Memorial Gymnasium, given to the college by students, alumni, trustees, and friends, commemorates the men and women of Pomona College who gave their lives in World War I and World War II. Completed in December, 1950, the building includes an excellent basketball court with seats for 1200 spectators, a classroom, a memorial library, staff offices, and commodious shower and locker rooms.

The Memorial Training Quarters, constructed in 1922 as a memorial to the men of Pomona College who lost their lives in World War I, has been incorporated as the east wing of the new Memorial Gymnasium. It represents the gift of the parents of one of these men, Sheldon Gerry, '17, supplemented by the gifts of alumni, students, and friends.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, a hockey field, and basketball courts are within the limits of the campus. A ticket booth, wall, and gate for Alumni Field were built in the autumn of 1950, as a gift of the class of 1916.

Athearn Field, given in memory of the late Fred G. Athearn, of the class of 1900, by a group of his business friends, and constructed in 1957-58 on land east of Clark Hall, provides touch football and softball fields, and other recreational facilities for the men's campus.

Earl J. Merritt Field, which honors a beloved alumnus, football coach, and Emeritus Professor of Physical Education, is the gift of Carlton M. Rogers, '37. This practice field, large enough for simultaneous soccer and baseball games, is also used for golf classes.

Two swimming pools are available for instruction and recreation throughout the year. In connection with the Memorial Gymnasium there is a pool for men, of standard size for water polo. An Olympic size pool for the women's athletic area was built in 1962, through the generosity of Mr. and Mrs. Morris B. Pendleton of the class of 1922.

The women's athletic area, which lies immediately south of the women's residence halls, was greatly extended in 1962 with the gift of a new field by the Women's Campus Club, and improved in 1964 through gifts from Mr. and Mrs. Pendleton. Five new tennis courts were constructed in 1965 through the gift of Carlton M. Rogers in honor of his mother, Isabel E. Rogers, for whom the courts are named.

A new center for physical education for women is under construction and will be placed in service in 1970. The center includes offices for the department, a dance studio, corrective rooms, a multipurpose room, and dressing rooms for both women and men. The facilities are joined with the Pendleton Pool and coordinated with the playing fields surrounding.

The William Renwick Gymnasium, named in memory of an early donor to the college, was first erected as a military barracks in World War I.

RESIDENCE AND DINING HALLS ON THE NORTH CAMPUS

Smiley Hall, built in 1908 as the first residence hall for men, honors Albert K. Smiley, 1828-1912, an early Pomona trustee. Renovated in 1957 and further remodeled in 1968, the hall accommodates sixty-nine students.

The Eli P. Clark unit, erected in 1929, includes three residence halls for men with accommodations for 286 students, and is a memorial to the late Vice-President of the Board of Trustees.

Edwin C. Norton Hall, constructed in 1956 and named in memory of the late first faculty member and first Dean at Pomona, contains thirty-six single rooms.

Helen R. Walker Hall, the gift of Helen R. Walker of Glendale, California, was opened for use in 1953 and has accommodations for 108 students. Walker Hall also includes a lounge and reception room for the entire north campus. Walker Hall was made a coeducational residence in 1968-69, with 58 women in the main portion of the building, and 50 men in the three wings.

Lucien H. Frary Dining Hall, given by Mr. George W. Marston in 1929 in memory of Rev. Lucien H. Frary, a Trustee from 1892 to

1903, seats 375 in the main hall and includes three smaller dining rooms for special uses. Women residing in Walker Hall take their meals in Frary.

The north campus is embellished by notable works of art. Frary Hall is the site of two famous murals: "Prometheus," by Jose Clemente Orozco, painted in 1930, and "Genesis," by Rico Lebrun, painted in 1960. The Smith Memorial Tower, completed in 1961, honors its donors, the late Mr. and Mrs. Edwin L. Smith.

RESIDENCE AND DINING HALLS ON THE SOUTH CAMPUS

Harwood Court, constructed in 1921 and named in memory of Mrs. Charles E. Harwood, and including Strong Hall, accommodates 137 women.

Florence Carrier Blaisdell Hall was erected in 1936 and named in honor of Mrs. James A. Blaisdell, wife of the fourth President of the College. Originally a residence for women, it now houses 89 men.

Della Mulock Mudd Hall, which honors the wife of the late Seeley W. Mudd, a Trustee of Pomona, was completed in the spring of 1947. The building has accommodations for 98 women, most of them in single rooms.

Anna May Wig Hall, named in memory of the late Mrs. R. J. Wig, was placed in use in September, 1959. It has accommodations for 100 women.

Commodious dining facilities are available on the south campus. Residents of Harwood Court and Anna May Wig Hall are served by the Aurelia Squier Harwood Memorial Dining Hall built in 1931.

The Mary McLean Olney Dining Hall, constructed in 1936, which has accommodations for 120 students, also serves many special college purposes and occasions.

Gibson Dining Hall, built in 1949, honors the late Jessie E. Gibson, former Dean of Women. It serves the students living in Blaisdell Hall and Mudd Hall.

RESIDENCE AND DINING HALL FOR STUDENTS OF MODERN LANGUAGES AND INTERNATIONAL RELATIONS

Through the generosity of the late Diederick C. Oldenburg of Santa Monica, Pomona enjoys a magnificent coeducational residence hall for students of foreign languages and international relations. The Oldenburg Center, which is named for Mr. and Mrs. Oldenburg, was opened in November, 1966. The residence units house 141 students, with separate areas for those studying French, German, and Spanish. Provision is also made for students in the Russian and Chinese languages.

A coeducational dining hall is an integral part of the Center, with special areas for students in the particular languages. The lounges are equipped with the most modern electronic listening and recording devices, and the individual student rooms are linked electronically with central broadcasting equipment to permit language study at times convenient for the student.

EDMUNDS UNION

The Charles K. Edmunds and Katharine P. Edmunds Student Union, which honors the late fifth President of the College and his wife, provides a social center for all students and an attractive ballroom in which formal dances are held. This building, made possible by the gifts of many parents, supplemented by funds from the Associated Students and the bequest of the late Florence Riley, was built in 1937 and houses student offices, including publications, the manager's office, and the Cooperative Store. An additional wing providing a fountain area was completed in 1951 as a gift of the Associated Students.

An extensive remodeling program is under way as a joint enterprise of the College and the Associated Students. When completed, during the fall of 1969, the building will provide new fountain, recreation, and lounge areas, as well as increased services for students.

HEALTH FACILITIES

Excellent buildings and facilities for the health of students are held by Claremont University Center for all The Claremont Colleges.

Memorial Infirmary, given in 1931 in memory of Colonel Seeley W. Mudd, has twenty-seven beds. It is located on Amherst Avenue, north of Foothill Boulevard.

Baxter Medical Building, the gift of Dr. and Mrs. George E. Baxter, provides offices where the College physicians and nurses are available for consultation and the treatment of minor ailments.

OTHER FACILITIES

The President's House at 345 North College Avenue was the gift of Dr. D. K. Pearsons. It was constructed in 1900, and has been the home of all Presidents of the College since that time.

A replica of the original house in Pomona in which the College first opened in September, 1888, was erected on the campus in 1937 through the generosity of an anonymous donor.

The Bosbyshell Fountain in the courtyard of the men's campus commemorates the gift to the College of a deep well independent water supply by Edward P. and Mary G. Bosbyshell.

THE FACULTY HOUSE

Pomona shares with the other Claremont Colleges the Faculty House which the late Harvey S. Mudd and Mrs. Mudd and the Seeley W. Mudd Foundation gave to Claremont Graduate School and University Center for the use of the faculties of all the colleges at Claremont. Situated just south of the Honnold Library, the Faculty House provides an ideal meeting and recreational center for faculty groups.

CENTER FOR RELIGIOUS ACTIVITIES

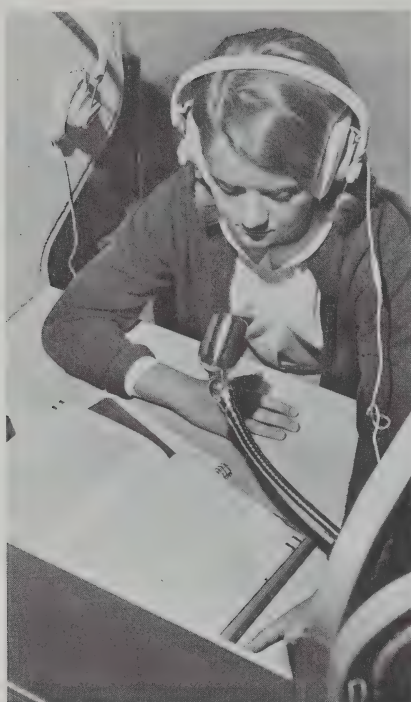
The McAlister Center for Religious Activities, placed in use in September, 1959, is the administrative home of the College Church, and the center for religious activities in The Claremont Colleges. The building was made possible by a gift from the estate of the late Mrs. Amelia McAlister Upshur of San Marino, California, and by contributions from each of The Claremont Colleges.

RANCHO SANTA ANA BOTANIC GARDEN

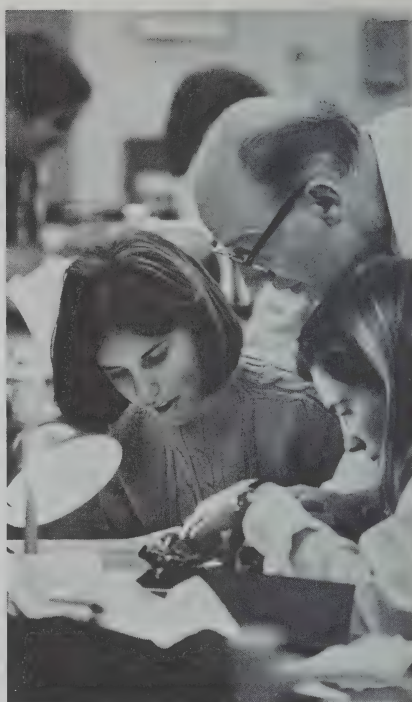
The Rancho Santa Ana Botanic Garden, affiliated with Pomona College and the Claremont Graduate School, is an independent, endowed institution devoted to the preservation of native California flora and to research and teaching in the fields of botany and horticulture. The Pomona herbarium and part of the Pomona botanical library are housed at the garden. The beautifully landscaped grounds of the garden are open to visitors throughout the year.



Harwood Court



Language Laboratory



Zoology Laboratory



Computer Center

Admission

THE COLLEGE SEEKS students of superior academic promise, high standards of personal conduct, and sufficient stability and self-discipline to carry on their education without the necessity of excessive supervision and direction.

Students are admitted to Pomona College upon evidence which satisfies the Committee on Admissions that: (1) the applicant possesses the necessary preparation and ability to carry successfully the academic program offered here, and will actually use them to that end; (2) the College, with its program and traditions, and the applicant, with his capacities, interests and needs, are mutually well suited to each other.

It is not possible to state a minimum record which will insure admission as the College has many more qualified applicants than available space. In the selection of students academic achievement and promise are primary factors but the Committee makes every effort to take into account character, special aptitudes and skills. The final decision is based on the judgment of the applicant as a person rather than on narrowly technical criteria.

Any person interested in preparing for Pomona or any school official who is responsible for directing the preparatory programs of students is invited to call on the Dean of Admissions at any time regarding the acceptability of candidates or for advice on specific programs.

For further information, write to Office of Admissions, Sumner Hall, Pomona College, Claremont, California, 91711.

ADMISSION TO FRESHMAN STANDING

The College does not require any particular pattern of secondary school courses but assumes that candidates will have taken a college preparatory course. Under normal circumstances this is assumed to mean four or five academic subjects each year and particularly during the eleventh and twelfth grades. Three years of mathematics are now recommended for all students and four for students who expect to continue in mathematics or physical sciences. There is no absolute requirement for credit in a foreign language for entrance, but in most fields of concentration a reading knowledge of at least one foreign language is essential. One method of meeting the language requirement for graduation is a score of 560 or higher on a College Entrance Examination Board Achievement test. (See page 93 for further information.) Few students make a satisfactory score with fewer than three years of language study in secondary school. Four years of English and two or three years in sciences and in the social sciences are recommended. The Committee

considers the quality of the record more important than the exact arrangement of subjects.

Students from foreign countries or those who are following unusual patterns of preparation may submit other evidences of their readiness to undertake college work.

Freshmen are not normally admitted to begin their studies with the second semester, which starts in February.

HONORS AND ADVANCED PLACEMENT COURSES

Students who are eligible for honors or advanced placement sections in their secondary schools are advised to register for them when available.

Students who request college credit for honors courses taken in high school are required to submit scores on the Advanced Placement Tests given by the College Board. The decision as to whether or not credit will be allowed will be made by the Classification Committee and reported at the time of registration.

APPLICATION INSTRUCTIONS FOR FRESHMAN CANDIDATES

Application for admission to Pomona College must be made on the form furnished by the College and all credentials must be filed with the Dean of Admissions. The final date for filing application for Freshman Standing in September, 1970 is February 1, but candidates are urged to submit applications early in the fall (September-October of their senior year in high school). The final date for receipt of credentials other than the application itself is March 1. The forms and credentials required are:

1. *Application Form I*, including two wallet-size photographs and a \$20.00 fee. This fee is not refundable as it is charged to cover a portion of the cost of processing applications.
2. *Two Personal Ratings (Forms II and III)*. A confidential report by the principal or counselor and another from a classroom teacher to be sent directly to the Dean of Admissions.
3. *Official Transcript* of high school record to date. At the time of selection of candidates, work in progress will be considered in fulfillment of requirements, and admission will be granted subject to the filing of a final transcript showing the satisfactory completion of all secondary school work. The transcript form ordinarily used by the school is satisfactory. It should include an interpretation of the grading system.
4. *Scholastic Aptitude Test Results*. All candidates are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board (see below for further information). It is recommended that candidates take the November or December administration of the test. Results of the January test will also be accepted.

Freshman applicants will be notified of the Admissions Committee's decision in mid-April.

INSTRUCTIONS FOR FRESHMEN OFFERED ADMISSION

Medical Certificate. The College will send the prescribed form, which must be filled out in its entirety by a licensed physician and requires a physical examination and laboratory test. An entering student must submit by August 1 the report of medical examination on the prescribed form, including the result of a tuberculin skin test or chest X-ray within the preceding six months, a recent smallpox vaccination, and active immunization against tetanus. These must be received by the Health Service before admission can be completed.

Final Transcript. An official final transcript reporting grades must be filed as soon as possible at the close of the last term and should include a statement of graduation.

Deposit. All students are required to make a \$50 deposit. This deposit is held until the student's graduation (or withdrawal from classes), at which time any outstanding bills or charges are deducted and any balance is refunded. (For further information, see page 57.) No refund will be made to candidates who accept admission and withdraw before entrance. Candidates on the alternate list for whom places are not provided will have the entire deposit refunded.

SCHOLASTIC APTITUDE TESTS

All candidates for admission to Pomona College are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board and are responsible for making application to the Board. Students who plan to enter in September should take the test in November or December, unless they have satisfactory scores from a previous test. The results of the January test will also be accepted. Transfer students who plan to enter in February should take the test in May, July, or November, if they have not already done so. Freshmen are not admitted in February, but there are usually places for a few students with advanced standing.

Application to take the College Entrance Examination Board test must be filed approximately four weeks in advance of the examination date. The 1969-70 schedule for the examinations with the dates of registration is as follows:

Test Dates	Regular Registration Closes	Late Registration Closes
November 1, 1969	October 1, 1969	October 15, 1969
December 6, 1969	November 5, 1969	November 19, 1969
January 10, 1970	December 10, 1969	December 24, 1969
March 7, 1970	February 4, 1970	February 18, 1970
May 2, 1970	April 1, 1970	April 15, 1970
July 11, 1970	June 10, 1970	June 24, 1970

The above dates apply to centers on the North American Continent. Information about dates for other centers is contained in the College Board Bulletin of Information. There is a penalty fee of \$3.00 for late registrants.

Copies of the Bulletin of Information may be obtained without charge from the College Entrance Examination Board. The Bulletin contains rules regarding applications, fees, and reports; rules for the conduct of the tests; advice to candidates; descriptions of the tests; sample questions; and lists of examination centers.

Candidates must secure application forms from the College Entrance Examination Board and file completed forms, accompanied by the examination fee of \$5.50, at one of the offices described below. If possible, applications should be filed several weeks in advance of the closing date for regular registration for an examination.

Students who wish to take the examinations in any one of the following western states or Pacific areas: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, Hawaii, Mexico, Alberta, British Columbia, Australia, and all Pacific islands including Formosa and Japan, should address their inquiries and send their applications to College Entrance Examination Board, Box 1025, Berkeley 1, California.

All others should write to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey.

ACHIEVEMENT TESTS

It is strongly recommended, though not required, that candidates for admission take three Achievement Tests administered by the College Board and that one of these be the Achievement Test in English Composition. The other two are left to the candidate's choice.

PERSONAL INTERVIEWS

Although personal interviews are not required of candidates for admission, the College welcomes the visits of individuals who seek information about Pomona which is not available in the catalog. An interview with one of the Admissions Officers and a tour of the campus with a student, if the visit comes at a convenient time, may usually be arranged. Candidates should write or telephone for an appointment. Between February 1 and April 15, members of the staff are reading applications and are not available for interviews. High school juniors and college transfer candidates who find that this is the only time they will be able to visit the campus may request an appointment and an attempt will be made to schedule an interview with a member of the Admissions staff.

APPLICATION INSTRUCTIONS FOR TRANSFER STUDENTS

The final date for accepting applications for admission to advanced standing is May 1 for entrance in September, and December 1 for entrance in February.

Credit allowed for work taken in other institutions will be determined by the Classification Committee after the candidate has been accepted. Course credit is ordinarily transferable if (1) the prior college is accredited, (2) the course carries a grade of "C" or better, and (3) the course is comparable to a course offered by Pomona College. (See "Courses of Instruction" for descriptions of courses.)

All the requirements listed below must be on file by May 1 for entrance in September, and by December 1 for entrance in February.

1. *Application for Admission* (Form I), including \$20 application fee. Checks should be made payable to Pomona College. This fee is not refundable as it is charged to cover a portion of the cost of processing applications. The application, the fee, and two wallet-size photographs should be submitted together by the applicant.
2. *Secondary School Report* (Form II), one rating by your secondary school Principal, Dean, or Adviser. This form should be sent by the school directly to the Office of Admissions at Pomona College as soon as possible.
3. *College Report* (Form III), one rating required from a member of the Dean of Men's or Dean of Women's office. If the candidate is not currently enrolled in a college, a letter from his superior in command (if in the service) or from his employer (if working) must be filed in addition to the recommendation from the college.
4. *College Teacher Recommendation*, one letter commenting on your academic potential by a college instructor. This should be sent by the instructor directly to the Office of Admissions at Pomona College.
5. *Transcripts*: (a) A complete transcript of secondary school record showing date of graduation, including an interpretation of grading system and a statement of the recommending or certificate grade. (b) An official transcript from each college or university previously attended, including a statement of honorable dismissal. Failure to list all colleges attended will be considered sufficient grounds for requesting withdrawal from Pomona College. The applicant is responsible for having transcripts sent in time to arrive at the College no later than December 1 for admission in February or May 1 for admission in September.
6. In addition, all transfer applicants must take the Scholastic Aptitude Test of the College Entrance Examination Board if they have not previously taken this examination. Candidates should schedule this test to allow time for the results to reach the College by the appro-

priate deadline. For further information regarding this examination, see pages 51-52.

Transfer applicants will be notified of the Admissions Committee action during December for February candidates, and during May for September candidates.

INSTRUCTIONS FOR TRANSFER CANDIDATES OFFERED ADMISSION

Medical Certificate. The College will send the prescribed form, which must be filled out in its entirety by a licensed physician and requires a physical examination and laboratory test. An entering student must submit by *August 1* (January 15 for second semester entrants) a report of medical examination on a form furnished by the College, including the result of a tuberculin skin test, or chest x-ray within the preceding six months, a recent smallpox vaccination, and active immunization against tetanus. These must be received by the Health Service before admission can be completed.

Supplementary Transcript. An official supplementary transcript reporting final grades must be filed as soon as possible after the close of the academic year.

Picture. One additional picture for use in the new student *Look Book*. This should be a close-up, preferably full face, glossy print if possible, and no larger than wallet size.

Deposit. All students are required to make a \$50 deposit. This deposit is held until the student's graduation (or withdrawal from classes), at which time any outstanding bills or charges are deducted and any balance is refunded. (For further information, see page 57.) No refund will be made to candidates who accept admission and withdraw before entrance. Candidates on the alternate list for whom places are not provided will have the entire deposit refunded.

ADMISSION TO SPECIAL CLASSIFICATION

Mature students may be admitted as special students to courses for which, by ability and preparation, they may be fitted. Special students are not candidates for a degree, though students admitted to this classification may be accepted later as candidates for a degree.

THE CENTER FOR CONTINUING EDUCATION

The Center for Continuing Education is administered by Claremont University Center, the coordinating service institution of the six Claremont Colleges. Its purpose is to assist men and women who wish to resume their higher education. Its activities include guidance for degree candidates, for special students, and for auditors; consultation in designing special instructional programs for returning students; research and experimentation in these areas of education for adults.

Expenses

CHARGES MADE TO ALL students for tuition, fees, and room and board will total \$3,358 for 1969-70. Additional fees for special purposes are listed below. A substantial portion of the total educational cost is borne by the College through the use of contributed funds and income from endowment.

The College reserves the right to change any of the following fees at any time should conditions make it necessary.

GENERAL FEES

TUITION, including season tickets for		
Athletic Events	per semester	\$1,000.00
HEALTH AND COUNSELING FEE	per semester	35.00
ASSOCIATED STUDENT DUES	per semester	19.00
DORMITORY FEE	per semester	2.00
GRADUATION FEE		10.00
FEES DEPOSIT (including Room Deposit below)		50.00

RESIDENCE FEES

ROOM AND BOARD	per semester	\$ 625.00
In Clark Hall, a few rooms with fireplaces are available for men, for which the charge is \$650.00 per semester		
ROOM DEPOSIT (included in Fees Deposit above; see also pages 51, 54, and 57.)		

DEPARTMENTAL FEES

LABORATORY FEES	<i>Per Semester</i>	
		\$2.00 to 10.00
APPLIED MUSIC FEES		
<i>For those paying regular tuition:</i>		
One-half hour private lesson per week		55.00
<i>For those carrying less than three courses a semester, exclusive of work in applied music:</i>		
One-half hour private lesson per week		100.00
Class instruction		30.00

PRACTICE FEES

Practice room reserved time, one hour daily		8.00
Four-manual organs (Bridges Hall and Claremont United Church of Christ, Congregational) one hour weekly		5.00
Two-manual organs (Bridges Hall and Claremont United Church of Christ, Congregational – Kingman Chapel) one hour weekly		2.50

FEES FOR SPECIAL PRIVILEGES

LATE REGISTRATION (see page 98.)	\$2.00 to 10.00
CHANGE OF PROGRAM (see page 98.)	5.00
SPECIAL EXAMINATIONS	2.00
CAMPUS FEE FOR AUTOMOBILES (see page 87.)	5.00 to 10.00

FEES FOR PART-TIME STUDENTS

SPECIAL TUITION FOR STUDENTS CARRYING LESS THAN THREE COURSES IN A SEMESTER	per course \$350.00
	per half-course 175.00

AUDITOR'S FEES

FOR PERSONS OTHER THAN THOSE TAKING COURSES FOR CREDIT	
	per course 25.00

RESIDENCE REGULATIONS

The College is equipped with residence and dining halls which accommodate most of the students. Admission to the College guarantees a room in one of the residence halls unless an exception is made in the statement offering admission. The most probable exceptions are for men seeking to transfer as Sophomores or Juniors, since there is not sufficient housing on campus for all men students. Students who live on campus are expected to board in the college dining rooms. Students may live off campus only if special arrangements have been made with the Dean of Men or the Dean of Women. Students living on campus are not permitted to maintain by rent, lease, or otherwise rooms off campus, either individually or by groups. Students who live off campus are not permitted to maintain other rooms in addition to those registered.

The residence privilege does not include the use of rooms during vacation periods. The residence halls are open for new and returning students the Saturday before the opening of the college year. Board payments for the year cover meals beginning the Tuesday before the opening of classes. The residence and dining halls are closed the day after Commencement.

For the fees paid, students are provided necessary furniture and bed linen and towels. Students are expected to furnish blankets and bedspreads and study lamps.

The College does not assume responsibility for loss or damage to personal property belonging to students. Parents and students should

inspect their own insurance policies and determine whether the limits are sufficient to cover the student's belongings in Claremont.

Each student is required to make a deposit of fifty dollars. This deposit, for those students living on campus, holds a room in the residence hall, and also, for all students, is for coverage of any miscellaneous fees and bills not paid at the time of graduation or withdrawal from the College. At that time, any outstanding charges for damage to college property, or miscellaneous unsettled bills, are deducted from the deposit. Any balance remaining is refunded after graduation, or after withdrawal from the College unless the deposit has been forfeited by withdrawing after a room in the residence hall has been reserved for the following year.

If a student reserves a room in the residence hall and releases it later after room choosing is completed, the entire fifty dollar deposit is normally forfeited. If a student who forfeits his deposit continues in college as an off-campus student, he must make a new deposit of fifty dollars for coverage of miscellaneous fees and bills.

The College reserves the right to dismiss from a residence hall without rebate of room rent, and to withdraw dining hall privileges from, any student who becomes an undesirable occupant.

The College may dispose of any articles left by students for more than six months.

BILLS

All college bills are due each semester in advance and must be paid at the time of registration. Students wishing to pay by installments may do so by arrangement with the Bursar. Two options are available.

(1) *The Twelve Monthly Payment Plan:* Students desiring to spread the cost of tuition, room, board, and the health fee over a twelve-month period may do so by arrangement with the Bursar. Payments begin with the month of June preceding the college year and end the following May 1. June 1 is the due date for the June payment. The total cost for the 1969-70 academic year, including the Student Body fee, will be \$3,358 and thus, if there is no scholarship, the amount due each month is \$280.67, plus a service charge of one dollar per month. A student may take advantage of this plan at any time by paying all installments back to June. Incoming Freshman students who wish to take advantage of the twelve monthly payment plan will be able to subtract from the total cost figure the amount of any assured scholarship or loan and pay one-twelfth of the remainder plus \$1.00 service charge per month. Matriculated students who will be receiving financial aid may enter the plan when assured scholarships or loans are known late in June by paying June and July installments, which have been adjusted by the amount of financial aid.

Adjustments in the monthly installment to cover any charges not covered in the twelve monthly payments will be made in October and

February. Laboratory, music, and other miscellaneous fees will be added to the November and March payments.

(2) *Deferred Payment of Semester Bills:* At least one-fourth of the total bill for the semester must be paid in advance or at the time of registration. Students may arrange with the Bursar at the time of registration to make deferred payments. Even though the student has a financial grant, one-fourth of the remainder of the bill must be paid. A service charge of from \$3.00 to \$6.00 per semester will be made for deferred payments according to the number of installments.

If the payments agreed to are unpaid and no arrangements have been made, they become delinquent ten days after the stated date and a penalty fee of \$10.00 will be charged automatically in order to reinstate the account. If the account is still unpaid at the end of twenty days, the student will be suspended by the appropriate college official from class attendance and from the dining halls. In the event of repeated failure to make payments on schedule, the privilege of deferred payment will be withdrawn.

(3) *Liability for Those Leaving College:* No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but \$25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall. The College reserves the right to use and reassign the room of a student who withdraws or goes on leave during a semester.

Students with unpaid bills are not given honorable dismissal or graduated. Seniors must settle all college bills and library obligations by four p.m. on the tenth day preceding Commencement if they are to receive their diplomas with their class.

Financial Aid

UNDER AN EXTENSIVE financial aid program approximately \$400,000 from funds administered by the College will be available for the assistance of Pomona students during 1969-70. These funds are derived from endowments, from individual and corporation gifts, from Federal sources, and from the annual Alumni Fund. In addition, Pomona students are eligible for California State Scholarships in amounts from \$300 to \$2,000 each, and 209 State Scholars were in residence during 1968-69.

No California resident eligible to apply for a California State Scholarship (whether an award is made or not) shall be considered for financial aid unless such application has been made as specified by the State of California Scholarship and Loan Commission. All secondary school, junior college, and college counseling offices in California maintain necessary current information, including deadlines and application forms. California residents living temporarily outside the state should correspond directly with the State Scholarship and Loan Commission, 520 Capitol Mall, Sacramento, California 95814 early in the academic year.

Pomona College has adopted, with certain other West Coast colleges and universities, a joint policy aimed at achieving uniformity and equality in the distribution of scholarship funds to entering students. All these institutions make a distinction between 1) recognition of academic honor and achievement, and 2) recognition of need for financial assistance. Honors at Entrance are awarded solely in recognition of distinguished academic achievement. They are awarded without regard to need and carry no monetary grant.

Grants of financial aid are awarded to students offered admission who need financial assistance to attend Pomona College. The size of the stipend will be determined in accordance with need. Normally, one-half the annual stipend is paid at the beginning of each semester.

If a financial aid recipient's record is satisfactory and need continues, aid will be continued during the student's residence in college. Each record is reviewed annually, with attention being given to the student's participation in and contribution to the college community as well as to his academic record. The amount of the stipend will be determined each year on the basis of the financial situation at that time. All Freshmen and Sophomores who are awarded financial assistance are expected to take \$100 of their computed need in the form of a loan. Juniors and Seniors are expected to take \$200 in loan form. The College reserves the right to increase these amounts if it becomes necessary.

Entering Freshman students in need of assistance should *complete* by February 1, 1970, an application for admission, and should submit by January 1, on forms available from high school counselors, a financial statement to the College Scholarship Service. This service, established by the College Entrance Examination Board in 1954 on a nation-wide basis, collects from parents or guardians information relating to the financial resources of scholarship applicants, and sends copies to the colleges and universities to which applicants are applying for financial grants. No further application form must be filed to be considered for any award administered by Pomona College. Pomona College must be designated to receive a copy of the form, however, no later than January 15. Students applying to transfer should designate Pomona College on the Parents' Statement and should submit it to the College Scholarship Service by April 15.

Financial stipends are also available to other matriculated students using the same procedure as for Freshmen.

Renewal forms for Pomona students currently receiving financial assistance and forms for matriculated students not currently receiving aid who wish to be considered for it are available in the Office of Financial Aid after February 1. Completed Parents' Confidential Statements must be filed with the College Scholarship Service no later than March 15. Supporting materials should be submitted to the Financial Aid office at Pomona no later than May 1.

FINANCIAL GRANTS AVAILABLE FOR 1969-70

ALUMNI SCHOLARSHIPS

Five or more scholarships will be awarded annually from the Alumni Scholarship Fund. These scholarships are based on financial need and are awarded not only on the basis of the academic record but also on the all around contribution to the life of the secondary school and community, and the promise of such contribution in college and afterwards. Open to men or women students.

ALPHA GAMMA SIGMA SCHOLARSHIP

One award with maximum stipend of \$1,800 is given by Pomona College to a Junior College graduate with financial need who is recommended by Alpha Gamma Sigma.

APPRECIATIVE PARENTS SCHOLARSHIP

A scholarship fund of \$16,000 has been established by the parents of a recent graduate in appreciation of the work of the College. The income from the fund is to be used to assist a worthy student who could not otherwise attend Pomona.

ARCS AWARD

An award of \$7,500 has been given to Pomona College by The Los Angeles Chapter of The ARCS Foundation, Inc., to be used for the support of worthy students studying in the sciences in the 1969-70 academic year.

THE MARY JANE ARMENTOR FUND

A fund of \$5,000 was established by Corrie Preston Morris, in memory of his sister, the income to be used to assist worthy and needy students.

THE NELLIE S. BABSON MEMORIAL FUND

The family and friends of the late Nellie S. Babson have established in her memory a scholarship fund, the income from which is available to a student in the humanities, who is in need of financial assistance.

THE DONALD HOUGHTON BACON SCHOLARSHIP

The parents of Donald H. Bacon, who died at the College in 1948, have established in his memory a \$5,256 scholarship fund, the income from which provides an annual award to a deserving student who prepared for college at the Tucson, Arizona, High School, and who is recommended by the Superintendent of Schools in Tucson.

THE DONALD E. BAXTER FOUNDATION SCHOLARSHIP

A scholarship of \$2,000 is to be awarded in 1969-70 to a deserving student with financial need who is studying in the premedical program at Pomona College.

THE ANNE JENCKS BEACH MEMORIAL SCHOLARSHIP

A fund of \$15,133 has been established by the late William N. Beach, '01, in memory of his wife, also a graduate of the class of '01, the income from which is to be used annually to assist worthy students of good ability.

THE LLEWELLYN BIXBY MEMORIAL SCHOLARSHIP

A scholarship of \$500 available annually to a man or woman who has completed the Freshman year in Pomona College and who shows proficiency and genuine interest in science was endowed by Mrs. Llewellyn Bixby, '01, in memory of her husband.

THE ANNA BORUN AND HARRY BORUN FOUNDATION SCHOLARSHIP-LOAN FUND

A sum of \$10,000 has been given to the College, the income from which may be used for student scholarships, preferably for pre-medical students. Principal or income, or both, may also be used for student loans, with preference again indicated for pre-medical students.

THE HENRY G. BRAINERD AND FANNIE HOWARD BRAINERD MEMORIAL SCHOLARSHIPS

A fund of \$25,084 provides income which is available for scholarships for men or women.

THE JESSIE GREYSON BROOKS SCHOLARSHIP

A fund in the amount of \$2,650 has been established by Jessie Greyson Brooks, the income from which is to provide scholarships for students of good citizenship who have financial need.

THE THEODORE S. BROWN SCHOLARSHIPS

A fund of \$25,808 has been established by Mr. and Mrs. Theodore S. Brown, the income from which is available to students of good character who need financial help to remain in college.

THE J. CARLYLE BRYANT SCHOLARSHIP

A fund established by Mr. and Mrs. George W. Bryant in memory of their son, J. Carlyle Bryant, '45, is available to an outstanding, all-around man in any class at the college, who possesses qualities of character, scholarship, and athletic ability, and who is particularly interested in mathematics. The amount of the scholarship varies from \$500 to \$900, depending on the need of the recipient. If there should not be a properly qualified candidate in mathematics, the scholarship may be awarded to a student in one of the other physical sciences.

THE SUSAN WALKER BURKE SCHOLARSHIP

Income from a fund in the amount of \$40,362 is available to provide scholarships memorializing the late Susan Walker Burke. The awards are for any qualified Pomona College student who has financial need.

THE FRANK G. BUTLER SCHOLARSHIPS

A scholarship fund of \$81,000 has been established in memory of Frank G. Butler, the income from which is available to Sophomores, Juniors, or Seniors who have achieved scholastic distinction.

THE WINIFRED SMITH BUXTON SCHOLARSHIP

Winifred Smith Buxton, a member of the class of 1899, has established a scholarship fund of \$9,345, the income from which is to be awarded annually to a worthy student at Pomona College.

THE WILEY N. CALDWELL MEMORIAL SCHOLARSHIP-LOAN FUND

The Wiley N. Caldwell Memorial Scholarship-Loan Fund provides each year at least one scholarship of a suitable amount for any student with financial need; or principal or income, or both, may be used for loans to worthy and deserving students.

CALIFORNIA SCHOLARSHIP FEDERATION AWARD

A scholarship with maximum stipend of \$2,000 is given by Pomona College to a man or woman nominated by the California Scholarship Federation.

THE CANFIELD FOUNDATION SCHOLARSHIPS

The Canfield Foundation has made available a fund providing scholarships for women students from Los Angeles County entering Pomona College in September, 1969. These scholarships will be continued through the full undergraduate course subject to the approval of the Financial Aid Committee and the Foundation.

THE EDNA VAN WART CASTERA SCHOLARSHIP

A fund of \$100,000 has been established by the late Edna S. Castera, the income from which is available to women students with financial need at Pomona.

THE ADA "CHEVY" CHASE SCHOLARSHIP

A scholarship or scholarships in an amount or amounts to be determined annually is available for a Pomona student who has demonstrated personal and academic merit. Preference will be given to persons who are in need of financial aid because of exceptional family circumstances. Further preference will be given to Negro and foreign students who have personal and academic merit and financial need.

CHEMISTRY CONTEST SCHOLARSHIP

A scholarship with maximum stipend of \$1,800 is offered by Pomona College to a winner in the annual High School Contest sponsored by the Southern California Section of the American Chemical Society. The recipient must be among the top fifteen contestants, must show financial need, and satisfy all entrance requirements of the College.

THE CLAREMONT UNITED CHURCH OF CHRIST, CONGREGATIONAL, SCHOLARSHIP

A scholarship of \$250 is available each year to an upperclass student planning on life-time Christian service or to a Senior about to enter seminary training. Choice is made in the spring by the Financial Aid Committee upon nomination from the Department of Religion acting in consultation with the minister and a member of the World Service Committee of the Church.

THE PERRY W. CLARK MEMORIAL SCHOLARSHIP

A fund of \$10,666 has been established in memory of Perry W. Clark, the income from which is available to a deserving student in any class at the College.

COLLEGE SCHOLARSHIPS

A fund of \$243,952 has been established over the years by friends of the College, the income from which is available for the assistance of worthy students.

THE KATE CONDIT MEMORIAL SCHOLARSHIP

A scholarship of \$100, endowed by the late Mr. and Mrs. A. P. Condit, is awarded annually to an outstanding student in the Department of Music.

THE DANIEL WILLIAM COOPER SCHOLASTIC FOUNDATION

An award of \$100 is open to a man or woman in any class.

THE CORBETT SCHOLARSHIP FUND

A fund of \$104,950 established at Pomona College by the late Matthew M. Corbett provides income for aid to worthy students with financial need.

JOSEPHINE SCOTT CROCKER SCHOLARSHIP FUND

A memorial fund honoring Mrs. Crocker has been established by Mr. and Mrs. James D. Stewart, for the purpose of providing scholarships for junior college students transferring to Pomona College who desire to concentrate in History or International Relations. Two awards with maximum stipends of \$2,500 each will be awarded in accordance with the financial need of the recipients.

CYPRUS MINES CORPORATION SCHOLARSHIP

An award of \$500, available for the academic year 1969-70, has been provided by Cyprus Mines Corporation. A grant is also made to the college to help defray the full cost of instruction.

THE JOEL DEAN SCHOLARSHIP IN ECONOMICS

The Joel Dean Scholarship in Economics is an award of \$250 made annually to a Junior or Senior, with preference to a Senior, who is majoring in economics and who derives at least 25% of his income from a part-time job, other earnings, and loans. Nominations are made by the faculty of the Department of Economics.

THE FRANKLIN AND LILLIAN B. DEMAREST MEMORIAL FUND

A fund of \$2,008 was established by Mr. and Mrs. Demarest, the income from which is to be used in financial aid to students.

THE GEORGE CURTIS DE GARMO SCHOLARSHIP

The late George Curtis De Garmo of Los Angeles has established a scholarship fund of \$17,406 at Pomona College, the income from which is available annually to a worthy student.

ARTHUR M. AND FANNIE M. DOLE SCHOLARSHIP FUND

A fund of \$60,000 established by the late Mr. and Mrs. Dole of Pomona provides income for financial aid to deserving students.

THOMAS J. DOWLING SCHOLARSHIPS

A fund of \$10,000 provides income which is available for awards to men and women.

THE MILDRED D. DRUSCHEL LOAN FUND

A fund of \$17,631 has been established by the late Mildred D. Druschel to provide loans to students in need at Pomona College, as directed by the Board of Trustees.

THE EUGENE B. EATON SCHOLARSHIP

A fund in the amount of \$16,259 has been established by the late Eugene B. Eaton, the income from which is to be used to provide financial assistance to needy students.

ECONOMIC OPPORTUNITY GRANTS

Under provisions of the Higher Education Act of 1965, Pomona College will administer federal funds to assist qualified students of exceptional financial need to attend college.

THE RICHARD P. EDMUNDS MEMORIAL FUND

In addition to providing funds for the annual Richard P. Edmunds Memorial Prize in Physics, the Fund provides an endowment in support of scholarships awarded by the Committee on Financial Aid to any student in Pomona College who has financial need.

THE MALCOLM EVERSOLE MEMORIAL FUND

A scholarship for a man in the Junior Class to be nominated to the Committee on Financial Aid by the President of the College at the end of the nominee's second year in Pomona College. The selection is based not on scholastic rank only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character.

EXECUTIVES' SECRETARIES, INC., POMONA VALLEY CHAPTER SCHOLARSHIP

An award of \$800 provided by the Pomona Valley Chapter of Executives' Secretaries, Inc., is available to a woman student at Pomona College who needs financial assistance.

THE WILLIAM C. FREE AND MAZY BELL FREE SCHOLARSHIPS

The late Mrs. William C. Free of Pasadena has established a trust fund from which an income of approximately \$7,000 per year is available to Pomona College for the awarding of scholarships to students in any of the four classes. One of these scholarships is reserved for a student concentrating in music.

THE THERESE GARNER SCHOLARSHIP

A scholarship of \$940, open to a man or woman in any class, has been endowed by the late Mrs. Therese Garner.

GENERAL ELECTRIC COLLEGE BOWL SCHOLARSHIP

A fund of \$9,000 won by the Pomona College team of Dallas Holmes, '62, David Renaker, '63, Richard Wilsnack, '64, and Matthew Cartmill, '64, in the General Electric College Bowl competition, has been established as a scholarship fund, the income to be used annually to assist worthy students.

THE JAMES M. AND ELIZABETH L. GERSTLEY SCHOLARSHIP

A scholarship fund of \$30,000 has been established by Mrs. Madeleine H. Russell in honor of James M. Gerstley, a Pomona College trustee, and Mrs. Gerstley, the income from which is to be used to provide scholarship assistance for foreign students attending the college.

THE EMILIA B. GILLESPIE SCHOLARSHIP-LOAN FUND

A memorial fund honoring Emilia B. Gillespie provides for awards to students with financial need from the income of a bequest in the amount of \$80,488. Recipients of awards from this fund are expected to make repayment to the fund or to the College, although repayment is not a legal obligation.

THE GLENDINNING COMPANIES, INC. SCHOLARSHIP

Beginning with the 1969-70 academic year, a four-year scholarship in the amount of \$2,500 annually, has been established by the Glendinning Companies, Inc. for any Pomona student from a disadvantaged background with preference going to members of the Negro race.

THE ROBERT E. GROSS/LOCKHEED AIRCRAFT CORPORATION SCHOLARSHIPS

A fund of \$50,000 has been established at Pomona College by the Lockheed Leadership Fund in memory of Robert E. Gross, founder and principal officer of the Lockheed Aircraft Corporation for twenty-nine years until his death in 1961. The income from the fund is available for financial assistance to worthy students who are citizens of the United States, who intend to major in science, engineering, economics, or other fields applicable to the aerospace, electronic, marine, manufacturing or construction industries.

THE STELLA AND CHARLES GUTTMAN FOUNDATION SCHOLARSHIPS

A grant of \$5,000 has been made to Pomona College by the Guttman Foundation to provide scholarships to students of recognized ability who have completed two academic years of college and who are contemplating graduate or professional study. The awards are to be made on the basis of demonstrated financial need.

MARGARET BURTON HARWOOD SCHOLARSHIPS

A fund of \$51,171 has been established, income from which is available for scholarship awards to men or women.

THE CORINNE LOUISE HAYDEN MEMORIAL SCHOLARSHIP

The parents of Corinne Louise Hayden have established in her memory a scholarship fund of \$14,444, the income from which is available to assist students with financial need who have been offered admission when seeking to transfer to Pomona College from Citrus Junior College.

THE HAYNES FOUNDATION SCHOLARSHIPS

A grant has been made to Pomona College by the John Randolph Haynes and Dora Haynes Foundation to provide scholarships in 1969-70 to Sophomores, Juniors, and Seniors in the social sciences. The recipients must have good scholastic records, promise of professional success, and financial need.

THE A. L. HOBSON MEMORIAL SCHOLARSHIP

A scholarship of \$670 is open to a man student from Ventura County, California, who needs financial assistance to attend college. The recipient may be a member of any class at Pomona.

THE PAUL MYLREA HOLDEN SCHOLARSHIP

The late Mrs. Susie Mylrea Holden has established at Pomona College a scholarship fund of \$10,000 in memory of her son, the income from which is available annually to students who need financial help.

THE HOUCHIN FOUNDATION SCHOLARSHIP

A fund of \$5,269 has been established by the late Mr. C. E. Houchin of Bakersfield, income from which is available to Junior or Senior students who need financial aid to finish college.

THE HORACE EMORY AND EMMA BANTA HOWARD PRE-MEDICAL SCHOLARSHIPS

A fund of \$176,391 has been established by Mrs. Horace Howard, the income from which will provide financial assistance to students preparing for careers in medicine, including medical research.

THE WILLIAM J. HOWARD MEMORIAL SCHOLARSHIP FUND

Established by alumni and friends in memory of William J. Howard, '14, a scholarship of \$160 is awarded annually to a student for lessons in applied music.

THE HUGUENOT SOCIETY OF AMERICA SCHOLARSHIP

A scholarship in the amount of \$1,000 annually is available for a Pomona College student who has financial need, who is able to prove descendancy from the Huguenots in America in the 18th century. A description of the method of proving eligibility for the scholarship may be obtained from the Office of Financial Aid, Pomona College.

THE JAMES IRVINE SCHOLARSHIPS

A scholarship fund of \$120,000 has been established by the James Irvine Foundation, the income from which will be used to assist both men and women students at Pomona College in paying their tuition, board, lodging, and other expenses incidental to their education at the college. These scholarships are limited to students residing in the State of California, preference to be given to those in Orange County.

DAISY R. JEFFERSON MEMORIAL FUND

Endowment from a fund in the amount of \$14,231 provides scholarship assistance for a worthy student who has financial need.

WILLIAM L. JENCKS AND LUCY ATWATER JENCKS FUND

A fund of \$20,800 has been established by Mr. and Mrs. Jencks, the income from which is to be used to pay tuition and any and all expenses of any worthy student at Pomona College, who is financially unable to meet his own expenses.

MARCELLUS L. JOSLYN SCHOLARSHIP-LOAN FUND

The income from a gift made by Marcellus L. Joslyn is to be used to provide financial aid to above average students with financial need. Such assistance shall be given with the understanding that the recipients sign a statement of moral (not legal) obligation to repay to the fund the full principal amount thereof, when they are in a financial position to do so, together with an additional amount equal to one-half of the principal amount.

JUNIOR COLLEGE SCHOLARSHIP

An award with a maximum stipend of \$2,000 is available to Junior College graduates.

THE JUDITH KENISON MEMORIAL SCHOLARSHIP

The income from a fund of \$1,692 honoring the memory of Miss Judith Kenison is available to assist any worthy student in any class who has financial need.

THE ARTHUR C. KRAUSE SCHOLARSHIP

A fund in the amount of \$39,636 has been established by the late Arthur C. Krause, the income from which is to be used for scholarships for needy students.

THE CLAYTON A. AND LOTTIE CULLER LANGWORTHY MEMORIAL SCHOLARSHIPS

A scholarship fund of \$25,957 has been established by the late Mrs. Clayton A. Langworthy, the income from which is to be used for the education of worthy young persons with ambition and ability who otherwise would have to forego an education.

THE OLIVER DAVID LAWRENCE ORCHESTRAL SCHOLARSHIP

An annual scholarship of \$250, given in memory of Oliver David Lawrence of the class of 1968, is available to a qualified student who will continue study of his instrument in the Pomona College Music Department. It is awarded on the basis of musical ability and orchestral competence. It will normally be given to a Freshman after audition by the Music Department.

BERTHA LEBUS SCHOLARSHIP

A scholarship of \$1,050 endowed by the late Miss Bertha Lebus is available annually to a matriculated student attending the college. The recipient must

be a person who shows a high degree of promise and who needs financial assistance.

THE JOHN G. LOCKE SCHOLARSHIP

A scholarship fund of \$5,000 has been established by the late John G. Locke of La Jolla, income from which is to be available to a worthy student at Pomona College.

THE LOCKHEED SCHOLARSHIPS

The Lockheed Aircraft Corporation has established at Pomona a four-year scholarship for students concentrating in a subject applicable to a career in the aircraft manufacturing industry. Such fields of concentration may be either in the sciences or the social sciences. Lockheed Scholarships include full tuition and \$500 a year toward other college expenses, plus a grant to the college budget to help defray the full cost of instruction.

THE WILLIAM DELOSS LOVE AND POLLY LOVE DUNNING SCHOLARSHIP FUND

A fund of \$100,000 has been established at the college by the William DeLoss Love Foundation, the income to be used for scholarship purposes.

THE RICHARD N. LOUCKS, JR., MUSIC SCHOLARSHIP

A scholarship fund of \$15,000 has been established by the late Mr. Benjamin M. Stansbury, of La Canada, in honor of Richard N. Loucks, Jr., the composer of *Hail, Pomona, Hail*. The income is awarded annually to a student majoring in applied music.

THE RODNEY ALLEN MACHIN SCHOLARSHIP FUND

Income from a fund in the amount of \$3,510 has been established as a memorial to Rodney Allen Machin to provide scholarships to worthy students who have financial need.

THE MACKENZIE SCHOLARSHIP-LOAN FUND

A scholarship-loan fund of \$50,000 has been established by Miss Sophia MacKenzie, the income from which is to provide scholarships to premedical students in accordance with their financial need. Students must accept a moral responsibility to repay the amounts awarded when it is possible for the student to repay.

THE GEORGE H. MAYR EDUCATIONAL FOUNDATION SCHOLARSHIPS

The George H. Mayr Educational Foundation has made available a scholarship fund of approximately \$7,500 per year for the assistance of students from California who need financial aid to attend Pomona College.

THE AMELIE AUGUSTINE MCALISTER SCHOLARSHIPS

The late Mrs. Amélie McAlister Upshur of San Marino established at Pomona a fund of \$100,000, the income from which provides scholarships for women. McAlister Scholarships are available to women in any class who need financial assistance to attend college.

THE ROBERT MCFADDEN MEMORIAL SCHOLARSHIP

A scholarship fund of \$43,777 has been established in memory of Robert McFadden, '37, who was killed in action in World War II. The income is available annually to a man student.

THE ELIZABETH MCINTYRE SCHOLARSHIP

A scholarship fund of \$28,571 has been established by the late Miss Elizabeth McIntyre, income from which is available for scholarships at Pomona College.

THE MURRAY MINEHART MUSIC SCHOLARSHIP

A fund of \$9,034 has been provided by the late Mr. Murray Minehart of Laguna Beach, the income from which is available to a student of voice.

THE MINNESOTA MINING AND MANUFACTURING COMPANY SCHOLARSHIPS

A gift of \$1,000 has been received from the Minnesota Mining and Manufacturing Company to be used for one or more scholarships for qualified students with financial need at Pomona College for the year 1969-70.

OLIVER HOMES MITCHELL MEMORIAL FUND

A fund of \$47,569 established by the late Elsie Crosby Moffett provides income for a scholarship or scholarships covering the full cost of instruction to a deserving student from one of the following areas, in order of preference: Bremer County or Benton County, Iowa; the State of Iowa; any adjoining state. Should no acceptable candidate be available in any given year, the income may be used for the general educational purposes of the college.

THE FAXON MORE MEMORIAL SCHOLARSHIPS

Two scholarships of \$900 each are available annually to men students of well-rounded interests and promise of leadership. These scholarships were established by Mrs. Mary E. More of Goleta in memory of her son.

GRACE MAYS MULLER MEMORIAL FUND

Income from a gift in the amount of \$24,000 is available for scholarships to students with financial need.

MUSIC SCHOLARSHIPS

Ten awards of \$170 each, to cover the cost of lessons in applied music, will be available in 1969-70.

THE J. ANTOINETTE NENNO SCHOLARSHIP FUND

The income from a fund in the amount of \$33,960 provides scholarships to needy and worthy students who intend to enter professional Christian service.

THE ARTHUR NOBLE AND FRANCES W. NOBLE SCHOLARSHIP

A scholarship of \$550, endowed by the late Mr. and Mrs. Arthur Noble, is available annually to a student in any class who needs financial assistance.

THE NU ALPHA PHI MEMORIAL SCHOLARSHIP

A scholarship of \$1,175 endowed by the members of Nu Alpha Phi Fraternity is awarded annually to a man at the beginning of his Junior year. Selection is made by a special committee on the basis of outstanding character and real financial need, the latter partially determined by records of student employment during the school year. Given in memory of the Fraternity's losses in World War II.

THE NUNN, HAMILTON, NUNN MEMORIAL FUND

The late Jewel V. Hamilton has established a fund of \$891,162, the income from which is to be used for scholarships not to exceed \$750 each for worthy and qualified students of Pomona College who have financial need.

THE EVERETT S. OLIVE ORCHESTRAL SCHOLARSHIP

An annual scholarship of \$250 is awarded to a qualified student on the basis of musical ability on an orchestral instrument. It is endowed anonymously in tribute to Everett S. Olive, late Professor of Piano, whose interest was an important factor in the development of the orchestra. It is normally given to a Freshman. The scholarship is awarded on the joint recommendation of the Music Department and the Committee on Financial Aid. An audition is normally required.

THE WALTER H. PARSONS AND HAZEN M. PARSONS MEMORIAL SCHOLARSHIP

A scholarship of \$200 given in memory of Walter H. Parsons, '04, and Hazen M. Parsons, '09, is available annually to a man or woman in any class who needs financial assistance to attend college.

THE PHYSICS CONTEST SCHOLARSHIP

A scholarship with maximum stipend of \$1,800 is offered by Pomona College to a winner in the annual High School Contest sponsored by the Southern California Section of the American Association of Physics Teachers. The recipient must be among the top fifteen contestants, must show financial need, and must satisfy all entrance requirements of the college.

THE FLORA SANBORN PITZER MEMORIAL SCHOLARSHIP

A scholarship of \$1,100 from the Sanborn-Pitzer Foundation, established by Russell K. Pitzer of the class of 1900 in memory of his wife, is available to a woman student in the Sophomore, Junior, or Senior class who has shown scholarship ability and who requires financial assistance to remain in college.

JOHN W. PORTER TRUST SCHOLARSHIP

A scholarship of \$500, available to a student from the Long Beach area, is provided annually by the John W. Porter Trust.

THE CHARLES LEE POWELL FUND

A fund of \$2,000 established by the Charles Lee Powell Foundation is available for qualified students who have financial need.

THE PRESSER FOUNDATION SCHOLARSHIPS

A fund of \$400 is given to the college annually by the Presser Foundation of Philadelphia, for the assistance of music students. Scholarships from this fund are awarded by the Music Department to students who are interested in music education or other advanced work in music.

LAWRENCE S. PULLIAM MEMORIAL SCHOLARSHIP FUND

Endowment from a gift of \$12,000 honoring the memory of Lawrence S. Pulliam is available for scholarships to deserving students.

THE CLARA S. RATEKIN SCHOLARSHIPS

The late Mrs. Clara S. Ratekin of Covina has established a fund for \$495,297, the income from which is to be used to defray the educational expenses of worthy young men and women. These awards are open to students in any class.

THE MABEL WILSON RICHARDS SCHOLARSHIPS

The Mabel Wilson Richards Scholarship Fund of Los Angeles has made available scholarship assistance for worthy and needy women students from the metropolitan Los Angeles area.

THE RIVERSIDE FOUNDATION HESEMAN SCHOLARSHIPS

Four \$600 Heseman Scholarships have been allocated to Pomona College for the 1969-70 academic year for students with financial need meeting the standards of the college in academic ability and good citizenship. Preference will be given to students whose home residence is in San Bernardino or Riverside Counties.

THE CHARLES HARVEY RODI MEMORIAL SCHOLARSHIP

A scholarship of \$900 established by Mrs. Lucina Rodi Updegraff, is available annually to a man studying toward a career in medicine. The award is made on the basis of ability and need, and may be available to the same student for more than one year, at the discretion of the Committee on Financial Aid.

THE ALICE M. SANBORN SCHOLARSHIP

A scholarship of \$500 annually, endowed by the late Alice M. Sanborn, is available to a man selected by the Committee on Financial Aid as a representative student at the college. The candidate shall be selected at the beginning of his Junior year, and shall receive the scholarship for both his Junior and Senior years, provided he remains worthy of continued assistance.

THE PAUL E. SCHWAB SCHOLARSHIP

A scholarship of \$200 a year, to be awarded to a Junior or Senior of high scholastic attainment, good citizenship, and need for assistance, who is planning a career in law or science, has been established by Paul E. Schwab, '17.

THE SHATTO MEMORIAL SCHOLARSHIP

A scholarship of \$250 is provided annually from the income of the Walter O. Shatto and Clara R. Shatto Memorial Fund for a qualified upperclassman or graduate student majoring in the Department of Astronomy, the candidate to be selected on the joint recommendation of the department and the Committee on Financial Aid.

THE JAMES SHULTZ SCHOLARSHIP

A fund of \$63,133, established by the late James Shultz of Fresno, provides income for scholarship awards to students in any class.

THE ADOLPH AND MARY SLECHTA SCHOLARSHIP

A fund of \$10,000 has been established by Mr. and Mrs. Adolph Slechta, the income from which is to be used for a scholarship for any deserving student who has financial need.

THE ALFRED P. SLOAN NATIONAL SCHOLARSHIP

A renewable scholarship with a maximum stipend of \$1,900, the actual amount to be based on the financial need of the recipient, is to be awarded to an outstanding male high school graduate entering Pomona College in September, 1969.

THE MARGARET I. SMITH MEMORIAL SCHOLARSHIP

Income from a fund in the amount of \$4,885 is available for worthy students who have financial need.

THE E. HERBERT SPOOR APPLIED MUSIC SCHOLARSHIPS

A fund of \$4,500 has been established in memory of E. Herbert Spoor, '15, the income to be used for applied music lessons and practice fees.

THE GERTRUDE STEWART MEMORIAL SCHOLARSHIP

A fund of \$40,000 has been established to honor the memory of Gertrude Smith Stewart, '01, the income from which is to provide scholarships for students at Pomona College who have financial need. Preference in making the grants will be shown students offered admission to Pomona from Napa Junior College.

THE OLIVIA PHELPS STOKES SCHOLARSHIPS

A scholarship fund of \$47,000 provides income which is available to worthy students at Pomona College.

THE HENRY E. STORRS AND JULIA A. STORRS SCHOLARSHIPS

A fund of \$25,000 provides income for scholarship awards to men students.

THE WILLIAM W. STOUT SCHOLARSHIPS

A fund of \$199,862 has been established from the estate of the late William W. Stout, the income from which is available for scholarship awards to worthy students in any class.

ANDREW ACKER SUGG MEMORIAL SCHOLARSHIP

A scholarship of \$1,300 available annually to a Junior or Senior man who shows promise of outstanding work in the field of science has been established by Mrs. Andrew Acker Sugg in memory of her husband.

THE MONDA L. TAYLOR MEMORIAL FUND

A bequest under the will of Monda L. Taylor has established a scholarship fund in the amount of \$8,425, the income from which is available for scholarships to students with financial need.

THE HANNAH TEMPEST SCHOLARSHIPS

Two scholarships of \$125 each are awarded annually to a man and a woman studying art, in accordance with conditions laid down by the donor, Mrs. Hannah Tempest Jenkins.

THE MARY M. THORPE SCHOLARSHIP

A fund of \$10,000 has been established in the name of Mary M. Thorpe, the income from which is to provide a scholarship for any student who has financial need.

THE TITLE INSURANCE AND TRUST COMPANY FOUNDATION SCHOLARSHIP

The Title Insurance and Trust Company Foundation has established a scholarship fund at Pomona College which will provide annually \$1,800. Awards will be made to Pomona College men with financial need who expect to obtain the B.A. degree in four years. Applicants must be American citizens. The award is renewable if satisfactory grades are attained and if financial need continues.

THE UNION OIL COMPANY OF CALIFORNIA SCHOLARSHIP

The Union Oil Company of California has provided a \$3,000 scholarship for the 1969-70 academic year for any Pomona student with financial aid need who is an American citizen. Personal leadership and unusual distinction in a particular scientific or cultural field are to be stressed in selection of candidates.

THE UNION-TRIBUNE CHARITIES SCHOLARSHIPS

The Union-Tribune Publishing Company of San Diego has established one scholarship of \$200 in each of the four classes. A student receiving one of these scholarships for one year may continue to be a candidate for them in another school year. Preference will be given to students interested in journalism who come from San Diego County, but scholarships are open to all students.

THE UNITED CALIFORNIA BANK SCHOLARSHIPS

The California Bank has established a two-year scholarship at Pomona College to assist in his Junior and Senior years a deserving young man from Southern California who plans to follow a business career after graduation. The recipient will receive \$500 in his Junior year and \$500 in his Senior year toward the cost of tuition.

THE JOHN B. WARD MEMORIAL MUSIC SCHOLARSHIPS

A fund has been established by Mr. and Mrs. O. M. Ward in memory of their son, John B. Ward, '48, the income from which is available to students who need scholarship assistance for Applied Music. In the event that there ceases to be a need for Applied Music grants, the income from the fund is to be used for general scholarship aid to music students.

THE LURA D. WATSON MEMORIAL FUND

A memorial fund in the amount of \$24,996 honoring Lura D. Watson provides income supporting scholarships for any students with financial need.

THE ELIZABETH A. WOOD MEMORIAL FUND

A fund of \$14,296 established by Elizabeth A. Wood of the class of 1900 provides income for aid to students of a minority race, with preference to Negro candidates. The amount of the award, or awards, shall be determined by financial need.

THE WILLARD E. AND HENRIETTA P. THOMPSON ENDOWMENT FUND

A fund of \$56,287 provides income from which one or more departments of the college may employ students for clerical or other work. Only those students who need financial assistance are eligible.

APPLIED MUSIC GRANTS

A limited number of financial grants for applied music lessons are available through the Department of Music to assist those students who have financial need in the meeting of college costs as computed by the College Scholarship Service. Application by financially eligible students should be made at the beginning of the academic year through the Department of Music. Certification of need is obtained from the Office of Financial Aid, which then administers the funds in accordance with recommendations made by the Music Department.

FELLOWSHIPS AND SCHOLARSHIPS FOR
GRADUATE WORK

The following awards may be made for 1970-71 to graduating Seniors if qualified applicants appear. Applications for these fellowships should be in the hands of the Committee on Financial Aid by April 15, 1970, except in the case of the Harsh Fellowship, application for which should be made to the Claremont Graduate School.

THE HENRY MARTYN BRACKEN AND EMILY ROBINSON BRACKEN FUND

Two or more fellowships for graduate work in the Claremont Graduate School are available from the Bracken Fund. When in any year a graduating Senior does not qualify for the award, the stipend may be given to an undergraduate student in Pomona College.

THE C. E. AND BERTHA M. HARSH MEMORIAL SCHOLARSHIP FUND

This fund, held by the Claremont Graduate School, provides income for scholarship aid to Pomona College graduates. Although the Board of Fellows is empowered to make grants of the income for the assistance of any capable and promising graduates of Pomona College attending the Claremont Graduate School, it is the preference of the donors that first consideration should be given to those who are doing advanced work in the Fine Arts.

THE WILLIAM LINCOLN HONNOLD FELLOWSHIPS

Fellowships with a stipend determined by the committee of award according to individual circumstances are available from the William Lincoln Honnold Foundation. The award is open normally only to graduating Seniors who have done four full years of work in Pomona College, who are rated in the upper half of the graduating class on the basis of their performance during both the Junior and Senior years, and who wish to continue their studies either in the Claremont Graduate School or elsewhere in America or abroad. The prime purpose of the fellowship is to promote original and creative achievement in the candidate's chosen field of activity rather than merely to reward faithful classroom work. Preference will be given to candidates preparing for scholarly rather than professional work. The selection will be based not on scholarship only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character. The plans for graduate work are to be made in consultation between the candidate and the Committee on Financial Aid, the committee having final authority.

UNIVERSITY OF CHICAGO LAW SCHOOL SCHOLARSHIP

A scholarship in the School of Law at the University of Chicago will be awarded on the nomination of the Pomona College Pre-law Committee. The stipend covers tuition and is renewable for two years if the student's record is satisfactory.

CLAREMONT GRADUATE SCHOOL FELLOWSHIPS

In addition to the awards for graduating Seniors offered through Pomona College, scholarships for graduate study leading to advanced degrees are available at the Claremont Graduate School. For detailed information see the catalog of the Claremont Graduate School.

LOAN FUNDS

The College administers loan funds obtained through the provisions of the Federal "National Defense Education Act" in addition to its own institutional loan funds. Financial need as shown by the information contained in the Parents' Confidential Statement is a necessary qualification for the use of all governmental and institutional loan funds. These funds are thus normally awarded along with scholarship grants to meet the anticipated financial need of students, but they are also used to assist students in paying their college bills when unexpected needs arise. The Office of Financial Aid also assists students applying for loans available under the Guaranteed Loan Program authorized by the Higher Education Act of 1965.

SPECIAL LOAN FUNDS

The Associated Women Students Loan Fund, administered by the Dean of Women at the request of the Associated Women Students, makes available for women students short term loans for personal emergencies. It is not normally used for loans to meet college bills. Interest at the rate of 4% begins after a period of two years.

The Associated Men Students Loan Fund, established in 1931, is available for loans in small amounts to meet personal emergencies or short-term personal needs of Pomona men. It is not intended to be used to pay college bills. For a special need a loan may be issued on a long-term basis. The interest rate is 4%. The fund is administered by the Dean of Men at the request of the Associated Men Students.

STUDENT EMPLOYMENT

The College endeavors to find employment for students needing to earn part of their college expenses, and may prescribe part-time work as part of financial aid assistance. Many are thus helping themselves through various jobs, on and off the campus. Entering Freshmen and continuing students who wish employment should register at the Placement Office when they arrive on the campus in September.

Academic Distinctions

POMONA COLLEGE offers a number of academic distinctions, awards, and prizes to its students. These are given on the basis of academic excellence, and unlike the scholarships, listed on previous pages, are awarded without reference to financial need.

POMONA COLLEGE SCHOLARS

Students who have achieved an academic average of 10.8 in any one year are elected Pomona College Scholars for that year. This is the highest academic award, other than Commencement honors, which the college confers on its students.

PHI BETA KAPPA

The Pomona Chapter of Phi Beta Kappa, established in 1914, is the Gamma of California. Seniors "who are of good moral character, who are candidates for the degree of Bachelor of Arts, and who are distinguished for breadth of culture and excellence of scholarship" may be elected to membership in the Phi Beta Kappa Society. Twenty-nine members of the Class of 1969 were so elected.

PRIZES AND AWARDS

The following prizes and awards are available for general accomplishments and for proficiency in the work of the several departments:

The Rena Gurley Archibald High Scholarship Prize: A prize of \$50 to be awarded to that member of the graduating class ranking highest in scholarship was established by the bequest of the late Reverend Andrew W. Archibald, D.D.

The Associated Men Students Awards: The Associated Men Students of Pomona College offer annually two awards of \$100 each. Each award is given to a man student at the end of his Junior year, one to the man who best exemplifies a combination of scholarship with leadership and proficiency in athletics, and the other to a man who best exemplifies a combination of scholarship with leadership and attainment in extra-curricular activities.

The Mary Ford Bacon Memorial Prizes: Three prizes of \$100 each for the best essays or monographs relating to the Constitution of the United States are awarded annually by the Departments of History, Government, and Economics. The three contests are conducted separately under special rules made by the faculty of each department. Entries are judged with due regard for effectiveness of style, originality of thought and depth of insight into the spirit and operation of the American constitutional system. The Mary Ford Bacon Memorial Fund also provides a sum of money for the purchase of books and other materials on the Constitution recommended by the faculty in history, government, and economics.

The Ada May Fitts Prize: A prize of \$50 endowed by Mr. Charles T. Fitts in memory of his wife, Ada May Fitts, is awarded annually to the woman member of the graduating class who has been outstanding for her intellectual leadership and for her influence on other students in the college. Qualities of character, personality, as well as scholarship, will be considered in making the award.

The Kappa Delta Award: An annual award of \$900, established in 1926 by alumni members of Kappa Delta Fraternity and administered under a special committee, is awarded at the beginning of his Senior year to an outstanding all-round man, who shows qualities of character, intellect, leadership, sportsmanship, and proficiency in athletic pursuits. The recipient must have been in residence during all three lower years, and must rank in the highest third of all the men in his class.

The Blair Nixon Memorial Award: An annual award of \$190 is made from a fund established by his parents and friends in memory of Blair Nixon, '33, to a Senior varsity letter winner who exemplifies the high ideals of the college in scholarship and sportsmanship. The award is made on nomination of a special committee and is presented to a Pomona man at the beginning of his Senior year.

The Phi Beta Kappa Award: An award of \$200 endowed by the Pomona Chapter (Gamma) of Phi Beta Kappa is awarded to a Senior who has been in residence for three years at Pomona and who is selected for the high quality of his scholarship and his promise of future distinction. The award is open to both men and women.

The Arvid Pierre Zetterberg Award: From a fund endowed by Mr. and Mrs. A. P. Zetterberg in memory of their son, Lt. Arvid Pierre Zetterberg, an annual award of \$100 is made to the Sophomore man who during his Freshman year exemplifies the highest qualities of character, scholarship, and interest in manly sports. The award is made on nomination of a special committee and is presented at the Opening Convocation in September.

ART

The Drew Art Prize Fund: A fund of \$1,000 established by Miss Mary Drew provides income for prizes to be awarded to beginning art students for progress in creative graphic expression.

ASTRONOMY

The Moncrieff Astronomy Prizes: Prizes given to students in the first year course in astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebooks kept in accordance with the teacher's suggestions. Prizes totaling \$60 were endowed by Miss Flossie C. Moncrieff, '11.

BIOLOGY

The Vaile Prizes: Prizes totaling \$40 to be awarded to outstanding students in botany or zoology were endowed by the late Mr. Charles S. Vaile.

CHEMISTRY

The Stanley D. Wilson Prize: A prize of \$50 endowed by Dr. Stanley D. Wilson is awarded annually to the student whose independent study in research shows greatest promise for creative work.

ECONOMICS

The Morris B. Pendleton Prizes: One or more prizes of \$100, made possible by the Morris B. Pendleton Fund, are awarded annually to Seniors who have distinguished themselves by their work in economics.

The Leland M. Backstrand Memorial Awards in Economics: From a fund established in memory of Leland M. Backstrand, '23, by his family and friends, three awards of \$100 each will be given annually to two Senior students and one Junior student in economics. The first award will go to the Senior man or woman who has shown superior academic performance in the Senior year in economics. The second award will be made to the Senior man or woman who shows the greatest improvement from Junior year to Senior year. The third award will be made to a Junior student for superior academic performance.

ENGLISH

The John Dye Award: From a fund established by Mr. and Mrs. John Thomas Dye in memory of their son, John Thomas Dye III, of the class of 1943, who was a Lieutenant in the Army Air Corps, is offered an annual award of \$100 for the best piece of original writing to appear in a student publication. The award is announced at Commencement time.

The F. S. Jennings Memorial Prizes: Prizes totaling approximately \$300 per semester are awarded each year for excellence in English. In the award of these prizes special consideration is given to Freshman students who make persistent and successful efforts to improve the quality of their written English, and to concentrators in English literature whose critical writing is adjudged to be distinguished; but unusually fine performance in writing may be rewarded wherever it is found.

GEOLOGY

The Richard E. Strehle Memorial Award: A prize of \$400 established in memory of Richard E. Strehle, '41, who was killed in action in the Philippines in World War II, is awarded annually to a Junior or Senior man with the physical, mental and moral qualities desirable in a field geologist. Choice is made near the end of the Sophomore or Junior year by the Geology Department. The award may be withheld in any year, and additional prizes may be made in years when extra income is available.

GOVERNMENT

Three modest prizes are given by the Department annually, usually in the form of one-year junior memberships in suitable professional associations: the *Edward M. Sait Prize* to the student making the best record in the beginning course in government, the *Russell M. Story Prize* to the student doing the best work in public administration and public policy, and the *George S. Burgess Prize* to the student earning the highest grade in constitutional law.

INTERNATIONAL RELATIONS

The Cordell Hull Prize of \$50 is awarded annually to the student making the best over-all record in the study of international relations.

LATIN

The Mudge Latin Prizes: First and second prizes of \$15 and \$10, respectively, for excellence in Latin are endowed by friends of the college.

LIBRARY

The Eda May Haskell Library Prize: A prize of \$50 for the best library submitted by a Senior student, not necessarily for the largest or most expensive collection but for the most intelligently selected books in one or more fields of the student's interest, has been endowed by Professor John H. Kemble.

MATHEMATICS

The Llewellyn Bixby Mathematics Prize: A prize of \$25, in memory of Llewellyn Bixby, '01, is awarded annually to a Sophomore for excellence in his second year of mathematics.

The Jaeger Mathematics Prize: A prize of \$25 to be awarded annually to a Freshman in a beginning mathematics course has been endowed by Emeritus Professor of Mathematics Chester G. Jaeger and Mrs. Jaeger.

MUSIC

The Barbara Sanford Allen Prize: An annual competitive prize of \$50 to be awarded to a student in the Department of Music, above Freshman rank. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

The Rudolph Polk Memorial Award: An award established by friends and colleagues of the late Rudolph Polk, is available to a student in instrumental music — violin, viola, cello, or piano. The award will be made, after audition, on the basis of technical competency, musicianship, and general musical background. Students of any of The Claremont Colleges are eligible.

The Cecil H. Short Memorial Prizes: Prizes established in memory of the piano technician who maintained the Pomona College pianos for fifty years. The fund enables the Department of Music to award a fine book or score to one or more graduating Seniors who have been outstanding in service and performance in the department.

PHYSICS

The Richard P. Edmunds Physics Prize: A prize of \$100 to be awarded to the upper division student nominated by the Department of Physics as the outstanding physics student of the year was endowed by the late President of Pomona College, Charles K. Edmunds, and Mrs. Edmunds, in memory of their son.

The Tileston Physics Prizes: Two prizes have been established in memory of Professor Roland R. Tileston by former students and by members of his family: a prize of \$10 to the outstanding Freshman or Sophomore student in the Physics 1 course; a prize of \$50 to the Junior student in physics whose record in the course and department work is judged most promising.

PUBLIC SPEAKING

The Kinney Prizes: Awarded to the three students who, in their first year of intercollegiate competition in Oral Interpretation, make the most distinguished records of contest success. First, second, and third prizes of \$25, \$20, and \$15, respectively, will be awarded on recommendation of the Director of Forensics. The prizes were endowed by the late Mrs. H. N. Kinney.

The Dole Debate Prizes: Awarded to the two debaters who, in the opinion of the Director of Forensics, have shown the greatest promise in intercollegiate competition during the year. First and second prizes of \$30 and \$20, respectively, will be awarded. The prizes, established by Mr. John H. Dole in memory of his brother, Mr. William B. Dole, were endowed by Mr. Arthur M. Dole, '96.

RELIGION

The Hager Prize: A prize of \$25 for the best essay on a foreign missionary subject, open to all students, was endowed by the late Mr. and Mrs. C. R. Hager.

The W. Robert Rankin Prize: A prize of \$100 for the best essay on any theme or topic in Christian life and thought, open to all students, is given by an anonymous donor in honor of the former Chaplain of The Claremont Colleges.

THEATER ARTS

The Virginia Princehouse Allen Prizes in Drama: From a fund established in honor of Virginia Princehouse Allen, '26, former Director of the Theater at Pomona College, prizes of \$25 each are awarded annually for the best acting, the best work in design, and for the greatest contribution made by a non-major to the work in drama.

Campus Life

POLICY MAKING

The College attempts to maintain a campus environment conducive to the personal and intellectual development of students. The responsibility for formulating policy in regard to social life and for developing and administering the necessary regulations has been delegated through the President to the faculty. The faculty committee charged with the responsibility in this area is the Committee on Student Affairs, which consists of the Dean of Men, the Dean of Women, and certain faculty members appointed by the President. In carrying out its responsibilities, the members of this committee join with various students to form three joint student-faculty groups: the College Council, which is responsible for general legislative action in regard to student life and for consideration of policy matters regarding student-faculty relations; the Judiciary Council, which holds primary responsibility for the discipline of students and is empowered to take action up to and including expulsion from the College; the Residence Halls Council, which has been delegated authority in residence hall matters under a general goal of building a residence community which respects individual rights and nourishes individual growth through community involvement and interpersonal relationships.

The College believes that most matters which affect the College are of concern to both faculty and students and that the experience and judgment of both should be taken into account in the management of much of the college life. For this reason, many of the policy-forming committees of the College have both faculty and students as voting members. In addition to those already listed are the following: Admissions, Athletic Council, Courses of Study, Public Events, Radio Station, Religious Activities, Student Advising, Study Abroad.

The College Policy Review Council is a committee with faculty, administration, student, trustee, and alumni members. This group attempts to reflect the concerns of the community and reports to the entire community. It is empowered to review and recommend changes in any of the policies of the College.

THE ASSOCIATED STUDENTS

The Associated Students of Pomona College, through officers elected by the student body, coordinate all student activities and allocate the funds collected by assessment of Associated Students dues. The Executive Board of ASPC is responsible for the general administration of the affairs and properties of the Associated Students. The Board consists of the President of the ASPC, and Commissioners of Community Affairs, Social Affairs, Communications, Residence Halls, Cultural Affairs, and External Affairs. An Academics Commissioner along with the President of the

Associated Students and additional elected representatives serve as the student delegation to the College Council. The Associated Students also elect student members of the College Policy Review Council. The Joint Session of the ASPC states the position of the Associated Students on major policy issues. It is composed of the members of the Executive Board and the student members of the College Council and of the College Policy Review Council.

In addition, the Freshman and Senior Classes each elect a chairman to handle special activities of these two classes.

STUDENT CONDUCT

Pomona College assumes that its students, having voluntarily become a part of the College, are in sympathy with its goals and philosophy and will abide by its general practices.

The basic philosophy governing conduct is that each student, entering with others in a common educational enterprise, shares responsibility with fellow students, faculty and administration for the development and maintenance of standards which contribute to the welfare of the entire Pomona College community. The welfare of the College is dependent upon three basic conditions: the protection of individual rights within the community, the development of social and academic conditions which promote the College's educational goals, and the maintenance of institutional facilities and activities and the building of relations of mutual respect with various publics outside the college community. The educational goals of the College include the growth of intellectual powers, the development of character, and the stimulation of social consciousness. The achievement of these goals in a residential educational environment depends upon community interaction and respect for the rights and needs of others. It is in this spirit that behavioral standards are developed and enforced.

The responsibility for the welfare of the College is borne both by individuals and by the College as a whole. Individually, students must bear full responsibility for their conduct, both within and beyond the confines of the campus. The College expects students to exercise personal responsibility in regard to local, State, and Federal laws, and to govern their conduct with concern for other individuals and for the entire community. Behavior on or off the campus which is contrary to the welfare of the college community may result in disciplinary action.

The College expresses its concern and responsibility by developing and maintaining standards of conduct for the entire community. A booklet containing the specific regulations governing student conduct and information about judicial procedures is provided each student in the beginning of the academic year.

The College reserves the right to request the withdrawal of any student whose conduct in the judgment of the Student Affairs Committee is not in keeping with the standards and goals described in this statement.

STUDENT SERVICES

HEALTH SERVICE

The Claremont Colleges maintain a Health Service for students while they are on campus. Four full-time physicians and a staff of nurses provide office care at Baxter Medical Building and in-patient and emergency care at the Memorial Infirmary. Consultation and treatment in the Health Service are available to students without charge. A charge is made for medicines, laboratory tests, and special supplies. Ten days in the Infirmary are provided each year without charge for rooms or meals; a charge of \$7.50 per day is made thereafter. Consultation and treatment by specialists in all fields can be arranged when needed. Outside consultation, hospitalization, and surgery are arranged by the Health Service, but are not financed by the College, and payment for them is a responsibility of the individual student. Health service care is available throughout the school year with the exception of scheduled Christmas and Spring vacations.

The College does not assume responsibility for the complete medical care of its students, but only insofar as its present facilities will afford. Preventive medicine and campus health functions are stressed in the College medical program.

An accident and sickness medical expense insurance policy is available to all full-time students to protect against major costs. It is designed to supplement the care provided by the Health Service. It includes benefits for accidental injuries, hospitalization, surgery, doctor's visits in the hospital, emergency care, and ambulance. Premiums for coverage differ for the college year and for the summer, as stated in the policy. Detailed information is mailed to each student, usually during August. Information is also available from the Health Service.

Medical Requirements: The medical certificate required of all applicants prior to admission includes a physical examination, recent successful smallpox vaccination, a satisfactory tuberculin test, or an x-ray of the chest, performed within the preceding six months, and active immunization against tetanus.

Each academic year a student in residence is required to complete a tuberculin skin test or a chest x-ray by November 1. During the registration period, skin tests will be given by the health service staff to previously negative reactors. All positive reactors must be x-rayed yearly.

Failure to meet these requirements will result in the suspension of privileges of registration and class attendance until the requirements have been met.

COUNSELING CENTER

The staff of The Claremont Colleges Counseling Center includes a psychiatrist, two full-time psychologists, and two part-time psychologists. This staff is available to help students with the range of personal and

academic problems which they may encounter during their college years. The Counseling Center is interested in working with student groups and other segments of the college community in both current programs as well as in planning and research for future projects. Services at the Center are available to any fully enrolled student at The Claremont Colleges.

CAREER COUNSELING AND PLACEMENT

The College maintains a Placement Office for the benefit of students and alumni wishing career guidance or placement on a permanent full-time basis or for part-time or summer work. The Placement Office has a wide range of information about career opportunities, with valuable background material as well as information about specific openings in various occupations. In addition, on-campus interviews with representatives of graduate and professional schools, businesses, and programs such as VISTA and the Peace Corps are arranged.

Faculty advisers and other staff members in the College are also helpful to students in their choice of a career. Conferences about career opportunities are often held on campus under the sponsorship of various academic departments or student committees interested in vocational planning.

RESIDENCE AND DINING HALLS

Residence living is an important component of the educational environment of Pomona. The residence halls are described on pages 44-46. There are both single and double rooms in each hall, and a few suites as well. Entering freshmen are assigned rooms throughout the campus. A residence hall staff of faculty couples, graduate assistants, and resident assistants work with students in support of the educational goals of the College.

The dining halls also strengthen the educational program, since students have an opportunity here to meet and discuss issues of concern. To encourage participation of the entire community the Trustees and President of the College have arranged a student-faculty dining plan which permits a student to invite a faculty member (and spouse) to luncheon or dinner in the college dining hall twice a week without charge to the student or the faculty member. Under the arrangement, a faculty member may invite students to lunch.

EDMUNDS UNION

Edmunds Union provides fountain facilities, a store, and areas for conferences, dances, and recreation as well as informal opportunities for all members of the college community to meet. The communications center in the north wing of the building houses offices for the Business Manager of the ASPC, the Director of Student Activities, ASPC officers,

and the publications editors, as well as the mailboxes for off-campus students, meeting rooms, and ballroom. Many services are provided, including duplicating, banking, and accounting for student organizations and advising for student activities.

CAMPUS ACTIVITIES

ATHLETICS

Pomona College conducts a program of intercollegiate athletics as a member of the Southern California Intercollegiate Athletic Conference, the National Collegiate Athletic Association, and the National Association of Intercollegiate Athletics. Our teams, known as the "Sagehens," compete in football, basketball, track and field, baseball, cross country, waterpolo, swimming, soccer, wrestling, golf, tennis and bowling. Varsity teams are fielded in all sports; second teams—either Freshman or Junior Varsity—are fielded in all where student interest makes them possible.

A joint program of sports clubs is conducted with other members of The Claremont Colleges in such activities as fencing, lacrosse, rugby and skiing. Schedules are arranged for these club teams with other nearby clubs and colleges, but not exclusively within the Southern California Intercollegiate Athletic Conference.

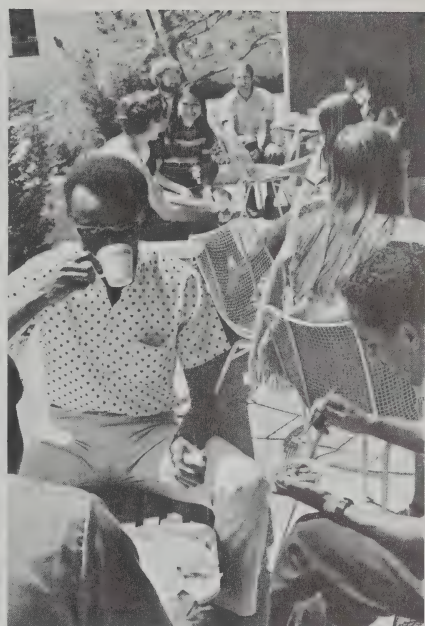
In addition to the program of intercollegiate sports and the joint program of club teams, Pomona College maintains an extensive program of intra-mural sports open to all men students.

The direction and financial management of athletics rest with the Director of Athletics. There is a faculty Committee on Athletics, and the Director is advised by the Athletic Council, which is composed of three members of the faculty, three members of the student body, and two members of the Alumni Council.

The College endeavors to safeguard students in the use of its physical education facilities, athletic fields, and gymnasiums, and to this end the department has established regulations concerning the use of such facilities, but it is clearly understood that students who use the same do so entirely at their own risk. It is expected that students will provide themselves with the accident insurance available through the College Health Service or through a plan of their own choosing.

RELIGIOUS ACTIVITIES

The focus of religious activities for The Claremont Colleges is in McAlister Religious Center, which houses the Chaplains' offices and a chapel and provides a meeting place for the College Church Board, the United Christian Movement, and the various denominational organizations. McAlister Center also houses the Volunteer Service Center, a stu-



dent office coordinating the many service activities of the students. Discussion series on important current issues, discussion of specific religious questions, religious services of the various denominations, counseling on religious matters are all available in McAlister Center.

The Claremont Colleges unite in a college church, which holds its services each Sunday morning at 11:00 a.m. in Bridges Hall of Music. Students participate in the services and there is a special student choir.

Music

During the 1969-70 season, The Claremont Colleges will present seven concerts in the field of classical music in the Mabel Shaw Bridges Music Auditorium ("Big Bridges"). Performances by orchestral, ballet, and solo artists are scheduled for the Claremont Colleges Artist Course and Claremont Celebrity Events series.

Students may purchase season tickets to either series at a discounted rate upon presentation of a student body card issued by any of The Claremont Colleges. Single seats may be acquired in the same manner. A special section of reserved seats will be available for \$2.00 per seat. Other reserved seating may be obtained for \$1.00 off the marked price.

The 1969-70 Artist Course will present:

Itzhak Perlman, violinist, November 10, 1969

Los Angeles Philharmonic Orchestra, December 11, 1969

Los Angeles Philharmonic Orchestra, February 25, 1970

Julius Katchen, pianist, March 16, 1970.

The 1969-70 Claremont Celebrity Series will present:

Whittemore and Lowe, duo-pianists, October 30, 1969

American Ballet Theater, January 21, 1970

Stern-Istomin-Rose Trio, May 19, 1970.

Under the auspices of the Pomona College Department of Music, public recitals by individual students, members of the faculty, and visiting artists are given frequently in Bridges Hall of Music.

The Geiger Fund, an endowment established by the late Hector Geiger of Los Angeles in memory of his wife, Elizabeth McLeod Geiger, enables the College to bring distinguished musicians to the campus.

The Pomona College Symphony Orchestra, the Choir, the Men's and Women's Glee Clubs, the Band, and chamber music groups afford opportunity for the study and public performance of significant music under faculty coaching.

THEATER

A strong tradition of excellent theater exists on the Pomona campus. The drama department supports several major productions each year and there are many workshop programs as well. Students may participate on

a curricular or non-curricular level. Students who are active in drama are selected for the Masquers, which is an honorary organization which gives support to various productions. In addition to Pomona's productions, the dramatic groups of the other Claremont Colleges also perform several times each year.

CENTRAL BOX OFFICE

The Central Box Office, located at the west portico of Bridges Auditorium, handles the tickets for all college events, including the Artist Course, Celebrity Events, Four College Players, Pomona College Drama Productions, student sponsored events, and many of the concerts and legitimate theater productions in the greater Los Angeles area.

PUBLIC ASSEMBLIES

On stated occasions during the year, including the opening of each semester, a College Convocation is held. A general assembly of the College is held each Tuesday at 11 a.m. for the purpose of hearing visiting lecturers or members of the faculty discuss topics of interest to the whole institution. This assembly period is also used for student body and class meetings.

STUDENT ORGANIZATIONS

Honor Societies: Ghosts, for men; Mortar Board, for women.

Honorary Fraternities: Phi Beta Kappa; Gamma Chapter of Alpha Kappa Delta, sociology fraternity; California Alpha Chapter of Pi Mu Epsilon, national honorary mathematical fraternity; Delta Phi Alpha, local chapter of the national honorary German society; Pi Sigma Alpha, honorary society in Political Science; Psi Chi, honorary psychology fraternity; Sigma Delta Pi, Spanish national honor society.

Local Social Fraternities: From the early days of the College, Pomona has sponsored a system of local fraternities. Currently there are seven such fraternities on the campus: Alpha Gamma Sigma, Kappa Delta, Kappa Theta Epsilon, Nu Alpha Phi, Phi Delta, Sigma Tau, and Zeta Chi Sigma. The College provides a club room for each fraternity in the residence halls on the north campus. Fraternity members live in the residence halls and take their meals in the college dining halls. The fraternities pledge new members during the Sophomore year. There are no sororities.

Departmental Organizations: American Chemical Society, Anthropology, Caducean Society, Economics Club, English Club, French Club, German Club, International Relations Colloquium, Mathematics Club, Psychology Club, Russian Club, Spanish Club.

Other Organizations: Masquers (theater), Forum Club (debate), Writers Circle, Crossroads Africa, Women's Recreation Association, the

Coop Committee, Volunteers in Asia. A number of groups are organized among all of The Claremont Colleges, including the United Council, Volunteer Service Center, Student Committee for Social Change, International Folk Dancers, Claremont Colleges Cinema, Sailing Club, New School, Black Students Union, United Mexican-American Students, Four College Players.

KSPC: A 3000 watt FM radio station owned by Pomona College and operated by Pomona students, covering the entire Los Angeles basin, provides radio experience for interested students.

STUDENT PUBLICATIONS

The Student Life, established in 1889, is the oldest college newspaper in Southern California. The students of Pomona College in 1966 voted to join the students of the four other undergraduate colleges in Claremont in establishing *The Claremont Collegian*, a newspaper published three times each week for all the colleges. Pomona students continue to publish *The Student Life* separately.

Other student publications include the *MSS-Metate*, a combination literary magazine and yearbook, and the student handbook, designed especially for new students.

STUDENT PROJECTS BOARD

The Student Projects Board is a student-faculty group appointed by the Associated Students to administer a memorial fund given by the family of David Elgin, '62, for the purpose of enabling student groups, classes, and organizations to sponsor effectively and without burdensome costs projects which increase opportunities for informal and meaningful associations of students, faculty, and other groups affiliated with Pomona College.

CLAREMONT COLLEGES REGULATIONS CONCERNING MOTOR VEHICLES AND BICYCLES

Every undergraduate student living on or off campus who plans to own or maintain an automobile, motorcycle, motor scooter, or motorbike on the campuses of The Claremont Colleges shall register such vehicle with the Campus Security Department during college registration at the opening of each semester or within three days after the vehicle is driven in Claremont. The Campus Security Office is in the Buildings and Grounds area, at the south end of the college campus on First Street.

REGISTRATION AND LIABILITY

The student is responsible for displaying the College decal which is affixed at the appropriate place on the vehicle by the Campus Security Department at the time of registration. At that time the student must also furnish evidence of having liability insurance.

For temporary use of two weeks or less the student is obligated to secure a temporary permit from the Campus Security Office within three days after the vehicle is driven in Claremont. In this instance no fee is charged.

All out of state and foreign students attending The Claremont Colleges who are under 21 years of age and who wish to drive in California must within 10 days after entering the State make contact with the California State Motor Vehicle Department at 211 Erie St., Pomona, California, to verify the validity of their driver's licenses and the adequacy of their insurance.

A student's vehicle is assigned to a specific campus parking lot at the time of registration. Parking on the streets in the campus area is prohibited between the hours of 8:00 a.m. and 4:00 p.m. In addition, the City of Claremont prohibits overnight parking on any streets which are not specifically designated as student parking lots. A student residing off campus may use only the parking lot to which his vehicle is assigned. Campus curb parking is reserved for visitors and maintenance vehicles during the day. It is the policy of The Claremont Colleges that motor vehicles are not intended to be used for commuting between Colleges or classes or within the Claremont campuses.

The student receives when registering the vehicle a booklet of information and regulations for which he is responsible. A driver must at all times, both on and off the campus, exercise particular care and consideration for the safety of himself and others, and must acquaint himself with the state and local traffic laws and comply with their observance.

Failure to comply with the regulations stated above and in the booklet of information issued to the student when he registers his vehicle shall constitute an offense against the College. The penalty for violation of motor vehicle regulations of The Claremont Colleges may include fines, temporary sequestration and storage of the vehicle at the student's risk and expense, loss of campus driving privileges, or suspension from college.

VEHICLE REGISTRATION FEES

A campus-resident student who keeps a motor-driven vehicle on campus will be charged a fee of \$10 a semester. A student residing off campus and using a motor vehicle on campus will be charged a fee of \$5 a semester.

BICYCLES

All students of The Claremont Colleges bringing bicycles to the campus should register them at the Fire Department in the City of Claremont. The Fire Department is open for such registration every Saturday during the year. Without this registration it is very difficult to locate missing bicycles. Students should report any missing bicycles immediately to the Campus Security Office.

Professional Preparation

ALTHOUGH THE primary objective of the liberal arts program at Pomona is a broad and fundamental education, some part of a student's work will contribute directly to his preparation for a vocation or for further study in graduate or professional schools. With the increasing demand for specialized knowledge, about seventy-five per cent of Pomona graduates continue their studies for a year or more after receiving the bachelor's degree. Even with the growing pressure for specialization, however, the rapid changes in many fields have given increased importance to breadth of study and to the ability to use specialized knowledge and skills in a context of social and cultural awareness. Most of the positions sought by college graduates — in business, the professions, or government — require proficiency in the use of English and foreign languages; and in many fields a knowledge of mathematics is essential.

The student should take the initiative in seeking advice on his vocational problems and objectives. He should avail himself of the services of the Counseling Center and the Placement Office, and should discuss his interests with his adviser or one of the deans. The Placement Office provides career counseling information on graduate programs and assistance in finding employment immediately after graduation.

GRADUATE STUDY FOR TEACHING OR RESEARCH

The Ph.D. degree is a common requirement for college or university teaching or for research positions in government or business. A student planning postgraduate study in any of the subjects taught in Pomona College or in related fields should consult his adviser and the chairman of the department for information and advice on meeting the requirements for the proposed graduate program. Very early in the first semester information concerning national fellowships for graduate study is compiled and distributed, chiefly among Seniors.

GRADUATE RECORD EXAMINATION

Many graduate or professional schools require or request that applicants for admission, as well as for fellowships and scholarships, take the Graduate Record Examination administered by Educational Testing Services, the national academic testing organization. Students who wish to receive information concerning the dates on which the examination is given are advised to write early in their senior year directly to the Educational Testing Service, 1947 Center Street, Berkeley, California 94704.

GRADUATE WORK IN THE CLAREMONT GRADUATE SCHOOL

Graduate work leading to the Master of Arts degree is offered in several fields including anthropology, art, Asian studies, botany, classics, economics, education, English and American literature, French, German, government, history, mathematics, music, psychology, sociology, Spanish,

and religion. The Master of Fine Arts degree is given on a two-year program in applied arts.

In connection with the Russell M. Story Program in Business and Public Affairs the degrees of Master of Business Economics and Master of International Studies are given.

The Doctor of Philosophy degree may be taken in Asian studies, botany, business economics, economics, education, English and American literature, government, history, international relations, mathematics, philosophy, psychology, and religion.

The Claremont Graduate School is authorized to recommend candidates to the California State Department of Education for the following public school teaching credentials: general elementary, general secondary, and special secondary for art. Work is also offered leading to administrative credentials and to the pupil personnel services credential.

The annual bulletin may be obtained from the Admissions Secretary, McManus Hall, Claremont, California.

For a list of fields of concentrations see page 100, and for details see the departmental statements and course offerings. The following list of opportunities for professional preparation is merely supplementary to these statements; it is intended as an additional preliminary aid, not a substitute for consultation and advice.

AGRICULTURE, FORESTRY, AND LANDSCAPE ARCHITECTURE

A strong program in the natural sciences is the best preparation for agriculture or forestry, and, coupled with an equivalent program in art, for landscape architecture. Courses which prepare for graduate study in these fields are available at Pomona College. A complete list of recommended courses in all three may be obtained from the Department of Botany.

ARCHITECTURE

The Art Department offers, within the framework of liberal education, training in fine arts with emphasis on subjects which form part of the requirements for advanced work in professional schools of architecture. For details of this program the student should consult the chairman of the Art Department.

BUSINESS

Students who plan to attend a graduate school of business, to study for an advanced degree in economics, or to enter one of the special executive training programs for college graduates should consult members of the Department of Economics for advice in planning their courses of study.

For an economics-engineering curriculum see the description in the section on Special Programs.

ENGINEERING

Students who plan to enter a professional engineering school should arrange a program of studies strong in mathematics and physical science. Interested students should consult Mr. Ogier and other members of the staff in physical science who are acquainted with engineering graduate school requirements.

For a combined plan of study at Pomona and the California Institute of Technology see the section on Special Programs.

LAW

The best law schools do not require any particular undergraduate concentration; they are interested in breadth of background and quality of work. Lawyers and

law schools agree that the ability to write and speak with clarity and precision is of paramount importance. A broad foundation in government, economics, and history is essential; accordingly if the student concentrates in one of these, he should be sure to supplement his choice with courses in the other fields. A year of accounting is strongly recommended. Those interested may consult with a member of the Pre-law Committee: Mr. Gleason (chairman), Messrs. Bracher, Flynn, and Wykoff.

MEDICINE AND ALLIED FIELDS

Admission to medical school is not dependent on any particular undergraduate concentration program, nor is it guaranteed by graduation from Pomona College. The Medical Sciences Committee of Pomona College, in cooperation with the academic advisers, helps the student plan a program which ensures adequate preparation for the study of medicine and dentistry. The Committee also advises students preparing for the allied fields of medical technology, nursing, physical and occupational therapy, and hospital administration, and assists students in choosing and making application to the professional schools. All students who intend to apply to such professional schools should register with the Medical Sciences Committee in the Zoology Office, Room 100, Seaver Laboratory South soon after entering college if they expect to receive the assistance of the Committee. For further information, see the Chairman of the Committee, Mr. Beilby.

Prospective applicants for admission to medical school are urged to study as early as possible, preferably in high school, the booklet "Admission Requirements of American Medical Colleges Including Canada," which may be purchased (\$4.00) from the Association of American Medical Colleges, 2530 Ridge Avenue, Evanston, Illinois, 60201. A loan copy of this booklet is available in the Zoology Office.

THE MINISTRY

Theological seminaries have varying requirements for admission. Though some are now suggesting an undergraduate concentration in religion, there is no uniform policy. Information about specific programs and requirements of theological schools may be secured from the Department of Religion.

MUSIC

Professional work in music is so diversified that the interested student should seek the advice of competent musicians both on the faculty and outside the College. Some form of postgraduate training is generally required to qualify for positions in the profession.

PSYCHOLOGY

Psychologists today work in many fields of specialization in industry, education, the armed services, public health, and social services. Detailed information concerning these varied professions and recommended programs of study in preparation for graduate training in special fields may be obtained from the chairman of the Department of Psychology.

PUBLIC SCHOOL TEACHING AND ADMINISTRATION

Pomona College does not itself recommend candidates to the State Department of Education for credentials, but it does offer courses leading to later certification by a graduate school. A year of postgraduate study is required. For information concerning requirements for certification as they affect the election of courses in college, the student should consult the adviser on preparation for teaching: Mr. Faust. For further information, see the statement accompanying the course offerings in Education. A joint program of Pomona College and the Claremont Graduate School is described in the section on Special Programs.

SOCIAL WORK

The field of social work covers many positions in agencies designed to meet human needs. Students interested in careers in social work are urged to consult the chairman of the Department of Sociology and Anthropology for advice on course offerings in the College, graduate school requirements, and specific job qualifications.

The Curriculum

THE COLLEGE endeavors to help its students toward a life in which professional achievement is accompanied by personal happiness, cultural balance, and social responsibility. Its program, therefore, includes courses intended primarily for general education as well as courses designed for specialized study and pre-professional training.

The immediate objective of general education, as expressed in the course requirements of the College, is to help the student develop:

1. Ability to use the English language effectively, in reading, in writing, and in speech.
2. Knowledge of scientific thought and method.
3. Understanding of the historical development of our civilization.
4. Understanding of human society, its problems and its institutions.
5. Understanding of the nature and operation of the American economic and political institutions.
6. Knowledge and appreciation of literature and the fine arts.
7. Knowledge of and sensitivity to ethical and spiritual values.

Because of the wide range of experience and special preparation among entering students, a considerable degree of election is permitted within the requirements designed to help the student achieve a liberal education. The requirements are planned also to encourage the student to investigate fields of knowledge new to him.

To secure the benefits of intellectual discipline derived from concentrated study, and at the same time, in many instances, to prepare for professional training after graduation, every student is required by the end of the Sophomore year to select a field of concentration in which he will complete not less than six courses in upper division work during his Junior and Senior years. The field of concentration may be represented by one department or may extend beyond departmental limits to include closely related subjects. For students of outstanding ability and well-defined interests, the field of concentration may be developed into a program of honors study. These requirements and programs of study are described in detail in the following pages.

FACULTY ADVISERS

Each student is assigned a faculty adviser. Freshman advisers are general advisers available to assist Freshmen in the selection of courses and general adjustment to the academic life of the College. At the end of the Sophomore year the student declares an area of concentration and chooses an adviser from that concentration. If at any time a student feels it advisable to change advisers, he may do so in the Registrar's Office.

SUMMARY OF REQUIREMENTS FOR THE DEGREE

Pomona College awards only the bachelor of arts degree. Commencement honors, *cum laude*, *magna cum laude*, and *summa cum laude*, are awarded on the basis of the over-all average of the student's work and of the quality of the comprehensive examination.

COURSES

Thirty-two courses, with the addition of eight physical education activities as described below, are required for the degree. In order to complete in eight semesters the work required for the degree, one must take an average of four courses in each semester and, in addition, the required physical education activities.

A "course" consists of approximately one-fourth of the work expected of a student during *one semester* in lecture, discussion, studio, laboratory, reading, and study. The term applies both to a semester course and to one semester of a year course. The number of hours spent in class and laboratory may vary according to the subject and the level of the work. Some courses meet four or five hours a week, and, unless otherwise indicated, a science course includes whatever laboratory work is required. Courses involving extensive reading normally meet three hours weekly with a fourth hour available for conference.

A "half-course" is allowed chiefly for work in art, music, writing, and some advanced work in independent reading or research.

A "cumulative course" is used for work (e.g., in musical groups) that continues through four semesters. Partial credit for incomplete cumulative courses is not allowed.

GRADE POINTS

In order to graduate, a student must not only complete thirty-two courses but also attain an average of at least C grade in all courses for which he has registered in Pomona College and in the regular terms of The Claremont Colleges. An explanation of the grading system will be found on pages 94-95.

RESIDENCE

A minimum of four semesters in regular full-time attendance is required for graduation. For transfer students entering with Junior standing, this means the four remaining semesters. All students, except those engaged in the C.I.T. program, the Pomona Semester Abroad program, the Washington Semester program, or another approved exchange program, must be in residence in regular standing both semesters of the Senior year.

DISTRIBUTION REQUIREMENTS

All students must satisfy the requirements for distribution as explained on pages 99-100. It is strongly recommended that students meet requirements involving lower division courses not later than the Junior year.

UPPER DIVISION REQUIREMENTS

In the Junior and Senior years all students must undertake a program of concentration leading to a comprehensive examination or its equivalent. (See pages 100-101.)

PHYSICAL EDUCATION ACTIVITIES

A student is required to take eight Physical Education Activities during his four years at the College. Exceptions to this requirement are handled by petition to the Physical Education Department. The normal registration is one activity per semester, but a

student may, for purposes of accelerating this program or making up past deficiencies, enroll for a maximum of two activities per semester. The drill in each year's work in basic ROTC courses (Military Science 1a and b, 52a and b) is acceptable as one physical education activity.

The requirements for transfer students are adjusted according to (1) their previous work in physical education and (2) the class into which they transfer. The maximum requirement for Sophomore transfers would be six activities; for Junior transfers, four activities. All students have the option to participate in additional activities for no credit if they desire. Activity courses are graded on a "pass-fail" basis, and successful completion of all work is required for graduation.

AMERICAN HISTORY AND INSTITUTIONS

To be eligible for graduation all students are required by the laws of the State of California to pass examinations or courses in American history and in American and California institutions, including the provisions and principles of the United States Constitution and the principles of California state and local government as established under the Constitution of this State. The requirement in American history may be met by passing an approved course (normally History 120a or 120b); the requirement in American and California institutions may be met by passing Government 61 or 161; and either or both requirements may be met by passing special examinations. These examinations are given three times a year: for new students, before classes begin in September; for students in residence, early in the first semester and in April or May. The dates of the examinations are announced well in advance. New students are urged to take the examinations set especially for them in September.

Reading lists for those preparing for the examinations are obtainable from the departments of History and Government or from the Registrar. The examinations are objective. Students failing an examination should consider the advisability of taking a course to meet the requirement.

Transfer students who have met the State requirements in another college or university will be expected to submit an official record of the fact. Any student who has not satisfied these requirements before the beginning of the second semester of his Senior year will not be considered a candidate for graduation and will not be eligible to take the concentration examination in that semester.

FOREIGN LANGUAGES

A knowledge of a foreign language is a graduation requirement for all students who entered as Freshmen after September 1, 1963, and for all students who, as transfers, enter a class for which the requirement is effective. The requirement may be met by (1) passing the third semester of a foreign language course at Pomona (or an equivalent course at another institution, including summer sessions), or (2) making a score of 560 or higher on the College Board achievement test in one foreign language selected by the applicant. The College Board Achievement Tests are offered on campus at the end of each semester. Test dates and information about signing up will be announced at the beginning of each semester.

A minimum of two years of foreign language study in high school or the equivalent is required for admission to the third semester language course at Pomona. Students who have had three or more years of a foreign language may wish to take the College Board achievement test to determine whether or not their preparation is sufficient to satisfy the minimal requirement at Pomona.

Apart from this minimal general requirement, students are advised to ascertain and prepare to meet the language requirements of their field of concentration in college and of their prospective graduate or professional schools. Many students will find it necessary and desirable to achieve a mastery of two foreign languages.

GRADUATION FEE

Every student expecting to graduate at the end of any given semester must file an application for graduation at the Registrar's Office not later than the beginning of his final semester and must include the graduation fee (\$10.00) with the payment of his other fees at the time of such registration. Failure to comply with these two requirements will automatically exclude a student from graduation that semester.

COMPLETION OF REQUIREMENTS

Requests for consideration as candidates for the Pomona College degree from former students who for any reason discontinued attendance before completing all requirements for graduation will not be considered unless submitted within seven years from the time the student normally would have been graduated.

ACADEMIC REGULATIONS AND PROCEDURE**GRADES AND GRADE POINTS**

Each candidate for graduation must earn an average of at least C (i.e., six times as many grade points as courses) in courses for which he has registered in Pomona College and in the regular terms of The Claremont Colleges. Grade points are assigned on the following scale:

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
12	11	10	9	8	7	6	5	4	3	2	0

These grade points and the resulting grade point averages may be converted to those in use before September, 1961 (A-4, B-3, C-2, D-1, F-0), by dividing by three.

Other grades used are:

- P (passing) No grade points assigned.
- I (incomplete due to illness).
- W (withdrawn with permission).

Regulations concerning these grades and the F grade are explained in the rest of this section.

All F and I grades reported by instructors must be accompanied by a written statement of the specific reasons for the grade.

An F grade can be made up only by repeating the course. When two courses other than physical education activities constitute a year sequence (as in all courses with "a,b" or "a-b" following the number) a student who receives an F grade in the first course may register for the second only with the permission of the instructor. The making up of work which has received the F grade does not expunge the grade from the record. Although credit and grade points are allowed for the repeated work, all courses attempted and grade points earned are counted in computing the student's average.

The I grade is given automatically only when the student is officially reported ill at the time of the final examination. A student who has been ill for an extended period during the semester may petition the Classification Committee for an I grade before the last day of classes. Instructors wishing to give an I grade for justifiable cause other than illness must first receive permission to do so from the Classification Committee. The statement accompanying an I grade must include a detailed explanation of how the grade can be made up. A copy of this statement is given to the student. All conditions for removing I grades must be met within seven weeks of the beginning of classes of the following semester. Upon completion of the work within this period the student will receive whatever grade he has earned. An I grade not made up within the designated period automatically becomes an F.

The mark W is used when a student withdraws from a course in accordance with the provisions outlined under "Changes in Registration." For the grades WP and WF see "Withdrawal from College," below.

The grade P (passing) is used to indicate satisfactory completion of required physical education activities and of work in musical organizations (see pages 181 and 173). Freshman seminars are graded "pass" or "fail." The "pass" or "fail" grade may be used also for other courses under the following restrictions:

(a) A student may take as many as eight courses or seminars "pass-fail" in four years, with a maximum of two per year in the Freshman and Sophomore years. Juniors and Seniors may elect to take on a "pass-fail" basis courses outside their fields of concentration, with a maximum of two in any one semester. Within the limits indicated, courses to meet the distribution requirements may be taken "pass-fail." Students must indicate at the time of pre-registration courses to be taken on a "pass-fail" basis, and the grading option may not be changed after the last day for withdrawing from classes without penalty.

(b) Work in not more than two Junior or Senior reading or research courses within the student's field of concentration may be graded on the "pass-fail" basis at the *discretion of the instructor*. The instructor reports his decision to the Registrar within the first ten days of the semester.

Courses taken on the "pass-fail" basis are not included in the computation of the student's grade point average, but those passed are counted in the total of courses required for graduation.

AMOUNT OF WORK

The normal registration is four courses in each of the eight semesters plus Physical Education Activities. For students in the Military Science program prior to September, 1969, the three courses in Military Science may be taken in addition to or as part of the thirty-two courses required for graduation. Any student may take for credit, in addition to the normal registration of four courses, one or two cumulative courses.

Juniors and Seniors may register for more than four courses and one cumulative course in Music under the following conditions: (a) they must have a grade point average of 9.0 or better for the previous semester; (b) they may not take more than two additional courses in the four semesters of the Junior and Senior years, or more than one additional course in any semester; and (c) the option is not available to students already taking Military Science III and IV in addition to the normal registration.

The maximum number of half-courses that may be taken in any one semester is two if taken as part of a total registration of four courses, and one if taken in addition to a normal registration of four courses.

The minimum full-time load is three courses. Registration for fewer than three courses places a student in special standing. A student admitted to the college as a special student may be given regular standing only by action of the Admissions Committee. A regular student who drops to special standing may be readmitted to regular standing only by action of the Classification Committee. Special students are not considered to be candidates for a degree.

For the entire four years of college, not more than thirteen courses in one department may be counted toward meeting the graduation requirements.

COURSES IN OTHER COLLEGES

Courses taken in other of The Claremont Colleges during the regular terms may be counted as the equivalent of Pomona College courses in meeting the graduation requirements. For a course carrying less than full credit in the college which offers it, special arrangements may be made through the Registrar's Office and the Classification Committee. For further information see pages 109-111.)

All summer session work will be evaluated on the basis of four semester units or six quarter units equalling one Pomona College course. The maximum amount of credit a student may earn in any one summer is three courses or twelve semester units. If the summer program should be the final one for completion of the requirements for the degree the maximum credit allowed is two courses or eight semester units.

AUDITING OF COURSES

Students regularly enrolled in The Claremont Colleges may, with the consent of the instructor, audit courses. Such arrangements will not be officially recorded and will not receive credit. An auditor may not participate actively in course work and may not, therefore, request registration for credit after the normal deadline for requesting course registration. Persons not regularly enrolled in the Colleges may audit courses provided they obtain the instructor's permission and pay the regular auditor's fee of \$25 per course.

QUALITY OF WORK

A student is expected to secure each semester six times as many grade points as the total number of courses for which he is registered.

By the middle of each semester instructors are requested to report all students doing unsatisfactory work for the period preceding the date of the report. In addition to these general reports, instructors are encouraged to make reports at any time concerning individual students who are not in good scholastic standing. Advisers and deans receive such reports and take such steps as are advisable in each individual case.

At the end of each semester a complete report is made on every student. This report becomes a part of the student's record and indicates his standing in the courses for which he has been registered.

The College may at any time require the withdrawal of a student if the quality of his work seems to warrant such action. Decision in every such case is reached by the joint action of the Student Affairs and Classification Committees in consultation with the student's adviser.

COMPLETION OF WORK

To be counted as work completed in the course, all papers, reports, drawings, and other assigned exercises must be turned in to instructors before the scheduled date of the final examination. For last semester Seniors the last day of class for Seniors is the final date for submitting work.

ACADEMIC RECORD

All collegiate work for which a student registers constitutes a part of the academic record, whether or not the work is completed. Students must provide the Registrar's Office with transcripts of registrations in other institutions.

READING PERIOD

An instructor of an upper division course may suspend classes for a reading period of not more than three weeks. An instructor who plans to use this option should announce his intention and describe the scope and purpose of the reading period at the beginning of the semester. Usually the reading period comes at the end of the semester. If an instructor elects to have the reading period at another time, he must send to the Dean of the Faculty and the Registrar written notice of the dates of the proposed reading period.

SUMMER READING OR RESEARCH COURSES

A department may offer for qualified students reading or research courses to be completed independently in a summer vacation. Summer reading courses were instituted primarily for the benefit of students on the Pomona Semester Abroad program and the several exchange programs. Other students may also apply for enrollment, especially for a course of readings which would supplement the regular course offerings.

The student may not enroll for more than one such course in a summer, and credit will not be given for more than two such courses. To be eligible for summer reading courses the student must have a cumulative grade point average of 7.5 and meet any other requirements the department may set. Courses must be under the direction of a Pomona College faculty member.

A student enrolled in a summer reading or research course may withdraw without penalty not later than June 30, by written notice to the instructor and the Registrar. All papers are due on the first day of classes in September, and examinations must be completed not later than one week after the first day of classes. The final date for submission of grades is the second Monday after first semester classes begin. (The College reserves the right to charge a fee for these courses.)

DISMISSAL FROM COURSES

A student who proves unable or unwilling to carry a course satisfactorily may be dropped from it by the Classification Committee upon the recommendation of the instructor.

CLASS ATTENDANCE

Students are expected to maintain regular attendance at all class appointments in the courses for which they are registered.

While there is no general college requirement, each instructor has the right to establish such specific regulations regarding attendance as may seem best suited to his particular department.

FINAL EXAMINATIONS

Seniors may not take final examinations in courses in the semester in which they take their concentration examinations. Final examinations are required of all other students in all subjects save as exceptions are made by action of the Courses of Study Committee.

Instructors may not change dates of examinations without the consent of this Committee. Examinations for individual students may not be given at other than scheduled times except by consent of the Classification Committee and on the presentation to the instructor of a Business Office receipt for a fee of two dollars (\$2.00), unless this fee is remitted by the Committee. Special examinations are rarely scheduled, except in cases of serious emergencies, such as illness.

FIELD TRIPS

Field trips are looked upon by the faculty as a legitimate part of certain courses. Permission for such trips is secured by instructors from the Dean of the Faculty at the opening of each semester. Instructors certify to the Registrar the names of students participating in these trips.

PRE-REGISTRATION AND REGISTRATION

On appointed days in January and late in the spring all students must pre-register by filling out schedules listing their choice of subjects for the following semester. The fee for any change in this pre-registration is \$5.00. New students pre-register and

register on announced days at the opening of each semester. It is presumed that students who fail to pre-register are withdrawing from the college. Registration is completed for all students by the payment of tuition.

The fee for late pre-registration or late registration is \$2.00 for the first or second day following the appointed days, and \$1.00 additional for every day thereafter to a maximum of \$10.00.

Students are not allowed credit for courses for which they are not formally registered. Students may not enter courses later than ten days from the beginning of class work.

CHANGES IN REGISTRATION

Forms to be used in making changes in registration are secured at the Registrar's Office. With the approval of his adviser, a student wishing to modify his schedule of studies by addition or substitution of courses may do so within ten days of the beginning of class work. All students except those registering for the first time are required to pay a change fee of five dollars. No change of registration is official unless the student has complied with the procedure established by the Registrar's Office.

The fee for a laboratory course will be refunded in full to students who withdraw from the course within ten days of the beginning of classes. One-half the full fee will be refunded to those withdrawing by the final day for withdrawal from classes without penalty, but after five weeks from the beginning of classes no laboratory fees will be refunded.

The last date for withdrawing from a course without penalty is five weeks from the first day of classes in the semester. Thereafter the dropping of a course by a student shall entail for him a grade of F for the course, except as circumstances may, in the judgment of the instructor and the Classification Committee, warrant a grade of W.

THE FACULTY REGULATION ON ENGLISH

In the evaluation of all academic exercises the quality of English used by the student may be considered. Every student in every course is expected to use English that is grammatically correct and logically sound. Failure to meet such standards as may be set by the instructors for each course may result in a lower grade or failure in that course.

LEAVE OF ABSENCE OR WITHDRAWAL FROM COLLEGE

A student who wishes to withdraw from college may be granted leave of absence or honorable dismissal provided he files officially the appropriate form. A student who leaves during the semester without filing the official form will receive failing grades in all courses in progress and jeopardizes re-admission to Pomona College or admission to another college.

Leave of Absence: A leave of absence, usually for a specified period of one or two semesters, may be granted with permission of parents and upon petition to the Classification Committee. Only those students in good standing academically and socially are eligible for leaves. A student on leave of absence has permission to re-enter the college in September provided notice of the intent to do so is filed with the Registrar by May 1, or in February if rooms are available. Rooms are ordinarily available in February, but unless specific commitment is made in advance a room assignment cannot be guaranteed.

A leave granted for medical reasons requires endorsement by the Classification Committee on recommendation by the Dean of Men or Dean of Women and by the College Physician or Director of the Counseling Center. Return from medical leave requires action of the Classification Committee on recommendation by the appropriate dean and the College Physician or Director of the Counseling Center.

To avoid holding space for a student on leave who may not intend to return, a leave of absence is automatically cancelled if the holder registers in another collegiate institution without prior approval from the Classification Committee. A student wishing to extend the period of leave may apply to do so by petition to the Classification Committee. If he does not make such application, the leave is cancelled, and the student may then return only by action of the Admissions Committee.

Withdrawal from College: A student may withdraw voluntarily from college by filing a Notice of Withdrawal with the office of the Dean of Men or Dean of Women. On filing this form and after review, one copy of the Notice will be sent him with a statement of the conditions under which he may be re-admitted if he wishes to return at a later date.

The transcript of a student withdrawing within the first five weeks of classes will be posted with W grades for all courses in progress and the date of withdrawal.

A student withdrawing after the first five weeks of the semester and before the final three weeks before the first date of final examinations will receive either a WP (withdrawn while passing) or WF (withdrawn while failing) depending on whether he is passing or failing the course as of the date of withdrawal from college.

A student who withdraws during the last three weeks of the semester prior to the beginning of final examinations will normally receive failing grades for courses in which the work is incomplete. If the student believes he is eligible to receive W grades the student may petition the Classification Committee.

A student advised or requested to withdraw from the college may, if he wishes, apply for re-admission by written request to the committee advising or requesting his withdrawal.

All other requests for re-admission after withdrawal should be addressed to the Admissions Committee.

REQUIREMENTS FOR DISTRIBUTION

Distribution requirements shall be met only by Pomona College courses unless exception is granted by the Classification Committee. As noted below, the regulation does not apply to the required courses outside the division of concentration in the Junior and Senior years. Students from other institutions who plan to transfer to advanced standing in Pomona College are advised to scrutinize their programs carefully to be sure they have taken the required work and to consult the Registrar concerning any questions as to the acceptance of credit.

Courses listed by number are especially recommended to meet these requirements. A student who wishes to clear a requirement by a course not listed should secure the written approval of the Chairman of the Department and file it with the Registrar. The term "course," as explained above, means a full course for one semester.

English Requirement. One of the following: English 10, 15, 20, 25, 30, 35.

Sciences. Any two courses numbered below 100 in Astronomy, Biology, Botany (except Botany 75), Chemistry, Geology, Physics, or Zoology. (Several departments offer courses planned especially for students concentrating in fields other than science. See the course descriptions for details. The student is advised to elect courses in areas other than those in which he has previously studied.)

Social Sciences. Three courses: Economics 51, 52; Government 10, 61, 62, 63 or 131; History 1a,b; Sociology 51, 52 or Anthropology 51, 53; any course in Sociology

or Anthropology for which a student is qualified. Anthropology 57 does not clear a Social Sciences distribution requirement. It is recommended, but not required, that the student take two courses in one department. In no case may a student take all three courses in one department to meet the requirement.

Literature, Art, or Music. One course. This requirement may be met by a course primarily concerned with the appreciation of literature rather than with the mastery of language, or by a course in art or music. Acceptable courses are:

- a. Any advanced course in English literature.
- b. In the classics and in modern languages, any course, in the original or translation, numbered above 100, except courses in composition and conversation.
- c. Music 53, 54, or any semester course.
- d. Art 3, 6, 9, 12, 51, or any semester course.

Philosophy or Religion. One course. Philosophy: 10, 51, or any course from the Philosophy 110-114 series. Religion: 1, 2, 3, 50(125G), 51; any course *except* 120, 121, 122, 190.

Outside the Division of Concentration: Two upper or lower division courses, freely elected in Pomona or the other Claremont Colleges, in addition to the requirements specified above. Of the total of ten required courses, two outside the division of concentration must be taken in the Junior or Senior year.

REQUIREMENTS FOR CONCENTRATION IN THE UPPER DIVISION

All students must make a tentative choice of a field of concentration during the Freshman year and a definite choice by the end of the Sophomore year. The concentration may be entirely in one department or it may be a joint concentration requiring work in two or more departments. The requirements for both kinds of concentration are explained under department headings before the lists of courses offered. During their first two years students will be expected to complete the basic courses required by the department or departments of their choice.

Concentrations are offered in:

Anthropology	History
Art	International Relations
Asian Studies	Mathematics
Botany	Music
Chemistry	Philosophy
Chinese Language and Literature	Physics (with an Astronomy option)
Classics	Psychology
Economics	Religion
English	Romance Languages
French	Sociology
Geology	Spanish
German	Theater Arts
Government	Zoology

There are options within the concentrations and there are also a number of inter-departmental concentrations. For details see the departmental statements. With the approval of the Courses of Study Committee, a student may arrange an individual program of concentration if his objectives cannot be met by the concentrations regularly offered. A statement of procedure may be secured from the Registrar.

Each student's program of concentration shall culminate in a written comprehensive examination over the entire field in which he has concentrated. The student must pass this examination in order to qualify for graduation. In a few departments research

projects take the place of the written examination. The regular comprehensive examinations are given once each year on the dates listed on the College Calendar.

No student is permitted to take both the comprehensive examination and final examinations in courses the same semester.

The comprehensive examination must be taken at the officially scheduled time. Students who have failed the examination may request permission to retake it at the opening of the college year and at the end of each semester. Such applications must be in the hands of the department concerned by September 1, December 1, or April 1. A fee of \$10 will be charged for a re-examination which is taken at other than the times set for a regular concentration examination. All students who intend to take the regularly scheduled comprehensive examination must file an application with the Registrar not later than the beginning of the semester in which the examination is to be taken.

In the event that a student does not take all or part of his comprehensive examination because of illness, he will receive an "I" for the part or parts of the examination not taken. It is the responsibility of the student who does not take a comprehensive examination because of illness to inform the department giving the examination at the earliest possible time.

A program of concentration leading to the comprehensive examination must include not less than six courses and not more than eight courses numbered over 100 in the chosen field. These limits apply to that part of the student's program on which the comprehensive examination will be set.

For the entire four years of college, not more than thirteen courses in one department may be counted toward meeting the graduation requirements. This is a permissible maximum. Most students will find it desirable, in planning for their careers after graduation, to take less than this permissible maximum; and most concentrations are planned for less than a total of thirteen courses in four years.



Special Programs

COMBINED PLAN IN ENGINEERING CALIFORNIA INSTITUTE OF TECHNOLOGY

Qualified students may receive the Bachelor of Arts degree from Pomona and a Bachelor of Science degree from the California Institute of Technology after a combined five-year program, of which the first three years are taken at Pomona. Students under the combined plan will be accepted at the California Institute of Technology without examination if recommended by Pomona.

In satisfying the lower division distribution requirements of Pomona College, the humanities requirements of the Institute should be carefully considered in consultation with the adviser. In addition, the following lower division courses should normally be completed: Physics 7 (Graphic Science), 51 or 61, Mathematics 61, Chemistry 1.

Satisfaction of the Pomona College concentration requirement in pre-engineering for those students who transfer at the end of the Junior year shall include at least five upper division courses selected from the following list in consultation with the faculty adviser. Starred courses shall normally be included. Mathematics 120, 124, 160; Chemistry 158a; Physics 100*, 101*, 141a*,b, 151, 170, 195a.

ECONOMICS—ENGINEERING

This curriculum, which may be completed in the usual four years' residence in Pomona College, combines a broad and strong training in the physical sciences with an integrated program of economic and business principles. The student who follows this curriculum will be better prepared to accept with understanding the responsibilities of leadership in the modern industrial organization. The course work may be organized to prepare the student for graduate work in Industrial Management or Business Administration.

The basic Economics—Engineering requirements are: Mathematics 30, 31; Economics 51, 52, 71, 110; and Physics 51 or 61, or Chemistry 1. Those who plan to elect three or more additional upper division courses in economics may substitute Economics 104 for Economics 52.

The concentration requirement may be satisfied by taking at least one more course numbered 60 or above in Mathematics, Economics, and Chemistry or Physics. The concentration must include at least six upper division courses in these fields of which three must be in one field.

Each student's program will be planned in accordance with his background and interest. A faculty member will advise him which courses in each department can be counted toward the minimum requirements.

FRESHMAN SEMINARS

Freshman seminars, more specialized than most introductory courses, provide opportunities to study, by appropriate research methods, subjects of special interest to both students and instructors. Seminars for 1968-69 are listed in the course offerings of the Departments of English, Government and Philosophy.

SCIENCE

In addition to the programs of concentration described along with the course offerings of the departments, there are two special programs involving interdisciplinary study and research.

BIOPHYSICAL SCIENCES PROGRAM

For those students interested in experimental medicine, molecular biology, biophysics, biochemistry and other sciences related to biological problems, a special program supported by the National Institutes of Health was inaugurated in 1963. Opportunities include summer training and research participation, as well as academic year courses and seminars.

Students eligible for participation are those majoring in Botany, Chemistry, Mathematics, Physics, or Zoology. Participants are expected to acquire a firm background in the physical sciences, and should work out a suitable academic program in consultation with the Biophysical Sciences Program advisers.

Research participation is available at all undergraduate levels. Stipends are available for summer participation at Pomona or in other institutions. Travel grants for attendance at scientific meetings are also available.

Information about the program may be obtained from Mr. Hansch in the Department of Chemistry.

Entering students interested in the program should mention this in their application for admission to the College.

UNDERGRADUATE RESEARCH PARTICIPATION PROGRAM

Thanks to funds currently being made available by the National Science Foundation through its Undergraduate Research Participation program, selected students in biological and physical sciences at Pomona College are able to gain valuable experience in experimental science by means of active participation in research projects and in independent study. Under this program, initiated in 1959, stipends are provided for qualified students participating on a part-time basis during the academic year or working full-time in the summer for a maximum of ten weeks.

In addition to these programs there are numerous grants to faculty members for research which give participating students additional laboratory experience and provide stipends for their assistance.

STUDENT EXCHANGE PROGRAMS

Under arrangements which are made each year, two or three Pomona students are selected from interested applicants to spend a semester at Fisk University, Nashville, Tennessee. The program operates on an exchange basis, and an equal number of Fisk students come to Pomona for a semester's experience. Interested Pomona students should consult Miss Beverly Brice, Assistant Dean of Women, who works with students in coordinating plans for the program.

In 1961-62 an exchange program with Swarthmore College was inaugurated. The program, open to Sophomores and Juniors, is conducted by the Swarthmore Exchange Committee in cooperation with the deans. Interested students should ask for further information from the Office of the Dean of Women.

WASHINGTON SEMESTER PROGRAM

A limited number of Pomona students are able to participate in the Washington Semester program conducted by American University, which affords the opportunity of intensive study of the governmental process in Washington, D.C. At American University's invitation, Pomona College has a quota of four students annually, two each semester. The major advantage offered by the program is the opportunity to witness personally the operation of the government in its many aspects, as well as to participate in the Washington Semester Seminars, which bring leading officials of the legislative, executive and judicial branches of the government together for discussions with the participating students. The selection of the four Pomona students who will represent the college is made on a competitive basis by the Faculty Selection Committee, with preference given to Juniors and those whose academic programs are most suitably supplemented by the opportunities afforded by participation in the Washington Semester program. Under a cooperative agreement, tuition is paid in the regular manner to Pomona College while charges for board and room are paid in Washington, D.C. Candidates selected defray their own costs for travel and other expenses. Students interested in the program are invited to consult with the chairman of the Department of Government, who serves as local representative.

STUDY ABROAD

In cooperation with The Experiment in International Living, Pomona College offers selected students an opportunity to spend a semester in residence in a foreign country in a program of independent study. Opportunity is provided for the students on this program to spend the first weeks of the semester living with a family. To be eligible for the Pomona Semester Abroad students must have the personal qualifications for living with a foreign family and the ability to study for several months without immediate supervision. Although arrangements may be made for attend-

ing lectures in foreign universities, the academic program consists chiefly of independent study planned with the assistance of a member of the Pomona College Faculty.

A student may receive credit for as many as three courses on the program. The requirements of the courses, including essays and final examinations, are set by the departments (chiefly in the social sciences and the humanities) which offer plans for the Pomona Semester Abroad.

Students may make application for the program for either semester of the Junior year or the first semester of the Senior year. Applicants for the Pomona Semester Abroad program must meet departmental requirements and are screened both by a faculty committee and by representatives of The Experiment. In the year 1968-69, fifty-five students lived and studied in thirteen foreign countries on the Pomona Semester Abroad program.

Students may also apply for permission to study abroad in the Junior year either by enrolling in one of the programs of foreign study conducted by American colleges and universities or by planning, and securing approval in advance of, an individual program of study at a foreign university. Further information about the Pomona Semester Abroad and about the regulations on other plans for study abroad in the Junior year may be secured from Mr. John B. Housley, Director of Oldenborg Center, who is Chairman of the Committee on Study Abroad.

Not all students find study abroad in their undergraduate years a profitable experience. A student interested in the possibility of study abroad should discuss the question carefully with his adviser, and he should give serious consideration to the relevance of this study to his educational objectives and his plans following graduation.

THE JOINT PROGRAM WITH THE CLAREMONT GRADUATE SCHOOL
FOR TEACHING CREDENTIALS
AND THE MASTER OF ARTS DEGREE

For students qualifying for the Elementary and Secondary Teaching Internship Programs at Claremont Graduate School, certification to teach in the public schools of California may be accomplished as follows:

Elementary Internship Program. The applicant enrolls for Introduction to Public School Teaching during the spring semester of the Senior year, followed by summer study in curriculum and a paid teaching internship of a full year in a cooperating elementary school.

Secondary Internship Program. This program is designed for the student planning to undertake study toward the Master of Arts degree in *the subject field or in Education* as an integral part of a program of preparation for high school teaching. The program has a number of optional sequences including a paid teaching internship.

Specific details of these programs are explained in the catalog of the Claremont Graduate School and in descriptive monographs available from the Director of Teacher Education in Harper Hall.

HUMAN RESOURCES INSTITUTE OF THE CLAREMONT COLLEGES

Pomona and the other Claremont Colleges have joined to establish the Human Resources Institute which, beginning September, 1969, will conduct programs of instruction, counseling, field studies, and research, for the purpose of developing new leadership for the cities of America. The Human Resources Institute is operated on behalf of The Claremont Colleges by the Claremont University Center, and President Louis T. Benezet of the University Center is acting President of the Institute. The work of the Institute is conducted by three component Centers — the Center for Black Studies, directed by Mr. Donald K. Cheek, formerly Vice President of Lincoln University, Pennsylvania; the Center for Mexican-American Studies, directed by Mr. Ronald Lopez, formerly Assistant Director of the Student Counseling Center and a member of the Chancellor's Task Force on the Urban Crisis at U.C.L.A.; the Center for Urban and Regional Studies, directed by Dr. Darryl Enos, formerly an Assistant Professor of Government, Director of the California Government Center, and Director of the Community Study and Service Center, at Sacramento State College.

The three Centers will devote their attention to problems of minorities and urban life in the United States. The work of the Centers will be facilitated by an Educational Diagnosis Service made available to the students of The Claremont Colleges by the College Student Personnel Institute, of which all the Colleges are members, and of which Dr. John L. Cowan is the Executive Director. This service will provide diagnostic testing, study skills, guides, and career information.

Courses in the Center for Black Studies and the Center for Mexican-American Studies are open to all students in The Claremont Colleges. Descriptions of these courses are to be found on pages 117 and 160. Both Centers have teaching staffs composed of faculty appointed by the Claremont University Center and also faculty members from the other Claremont Colleges.

The Center for Black Studies provides a counselor with special training in the needs of Black students. The offices of the Center are located at 240 East Eleventh Street.

The Center for Mexican-American Studies provides a counselor with special training in the needs of Mexican-American students. The offices of the Center are located at 1030 North Dartmouth Avenue.

Independent Study

INDEPENDENT STUDY is expected, of course, in connection with all college work. The term "independent study" takes on a special meaning largely as applied to arrangements, outside the regular courses, for students to undertake programs of reading or research. The opportunities for independent study in Pomona College range in scope from departmental "reading or research" courses to a plan for Honors study in the Senior year. Of the special programs described in the preceding section, two are carried on by independent study with a minimum of direction: the Undergraduate Research Participation Program and the Pomona Semester Abroad.

In each department qualified Seniors may enroll in one or more courses for independent study, and in some departments the opportunity is not limited to Seniors. Since these courses vary in methods and requirements according to the subject, the student should refer to the offerings in his field of concentration and closely allied fields.

The provision for summer reading and research is described on page 97.

SENIOR HONORS STUDY

Since 1924 Pomona College has offered a program of Honors study for the student who shows the capacity and inclination for exceptional intellectual achievement and self-direction in his study. An Honors program, consisting of carefully planned tutorial work, permits a student to devote from one-half to his entire time during his Senior year to independent study in his chosen field. The program does not aim to encourage extreme specialization, but rather to permit a student, in consultation with his faculty tutor, to plan and carry out studies of a specific topic in its varied relationships.

General administration of Honors work is vested in the Honors Committee, which reviews individual programs and administers the faculty regulations regarding them. A student enters Honors study at the beginning of his Senior year. A minimum grade point average of 9.0 is normally required for enrollment in Honors study. Application forms may be obtained at the Registrar's Office. These should be filled out in consultation with the student's prospective faculty tutor, and approved by the chairman of the department in which the student's concentration lies. The Honors Committee will discuss the program with the student, and if the program is approved, it will appoint a supervisory committee of three faculty members, the student's tutor being chairman.

In planning areas of work in the student's program of Honors study the limitation of not more than thirteen courses in one department is observed. In the event that course requirements for concentration remain unfulfilled at the time that the student begins his Honors study, his plan for the Senior year must include specific arrangements for meeting the spirit of these requirements. This may be done either by taking or auditing courses or by reading as part of the Honors program. The work thus done will be covered in the oral examination. College requirements for "distribution" other than the two courses outside the division of concentration, must be completed before beginning Honors study.

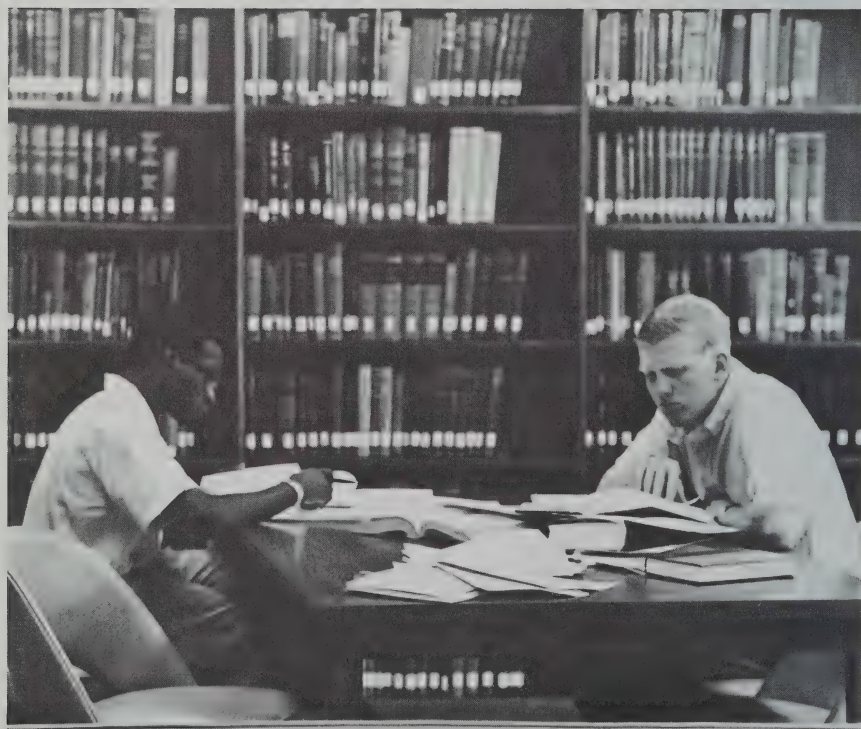
The equivalent of from four to eight courses may be allowed to Honors study. Programs of Honors study must be carried out while in residence at Pomona College.

A student in Honors study meets regularly with his tutor (usually weekly), and pursues such reading, research, experimentation, and writing as may have been outlined in his program of study and which is most appropriate for him. Normally this will include the preparation of a thesis or the completion of a significant project. The success of a student in his Honors work is measured by the quality of his thesis or project and by written and oral examinations. He will take such of the usual written comprehensive examinations set for his concentration as his department may require. In addition he will appear for an oral examination at the end of his Senior year covering the area of his Honors program.

A student may withdraw from the Honors program at the end of one semester either upon his own motion or that of his supervisory committee. In this event, the supervisory committee will assign letter grades for work completed up to that time.

Applications for admission to the Honors program are due on May 1 of the Junior year. Honors projects are due in completed form no later than May 1 of the Senior year.

A Manual of Procedure, describing the program in more detail, is available in the Registrar's office.



Courses of Instruction

A SEMESTER COURSE or one semester of a year sequence is credited as a full course unless there is a notation that it is a "half-course." In a few instances, notably in advanced courses in independent reading or research, the course may be taken for full or half credit. Such courses are described as "course or half-course." For credit in military science and applied music see the explanations in the departmental statements preceding the course offerings. The number of a course indicates the level of the work, as follows:

Below 50: elementary courses, usually taken in the Freshman year.

50 to 99: second-year courses or beginning courses more advanced than those numbered below 50.

Above 100: primarily for Juniors and Seniors, but open also to Sophomores who have had the prerequisites indicated in the course descriptions. Students without previous work in the same field may enter these courses only by written permission of the instructors.

The notation NC indicates that the course is not credited toward the thirty-two required for graduation.

The letters "a-b" or "a,b" following a course number indicate that it is a year sequence. The hyphen indicates that credit will be given only upon completion of both semesters. The comma indicates that credit is given for either semester, but unless a passing grade has been received for the first semester the student may enter the second semester only by permission of the instructor.

The letter "G" after a course number indicates an "intercollegiate" course, taught by a member of the Claremont Graduate School Faculty and listed in the course offerings of more than one college.

The letters "CC" after a course number indicate a cooperative course open to all students in The Claremont Colleges. Any restrictions on enrollment, other than class level, are stated in the course description.

Any course may be withdrawn if the enrollment is less than seven.

ENROLLMENT IN COURSES OFFERED BY OTHER CLAREMONT COLLEGES

Academic interchange between the colleges and between the colleges and the graduate school provide opportunities for curricular enrichment and active membership in the wider community of The Claremont Col-

leges. Students may register on their own campuses for courses open to them in the other Claremont Colleges, subject to the following conditions:

- A. A first semester Freshman normally registers for his entire program in his college of residence. Exceptions may be made in fields of study not available in the student's own college. During his second semester, a Freshman may register for one course outside his college of residence.
- B. A Sophomore may register for one course per semester outside his college of residence.
- C. A Junior or Senior may register for one-half of his total program in any one semester outside his college of residence.

Registrations for courses in joint programs and CC courses (see above) are not considered as outside registrations.

Exceptions to these regulations must be approved by the Classification Committee.

Courses to meet the distribution requirements must be taken in Pomona College unless exception is granted by the Classification Committee. This restriction does not apply to the requirement of two courses outside the division of concentration in the Junior or Senior year. Courses to meet the concentration requirements must be taken in Pomona College, unless departments make exceptions to the rule.

When a course in one of the other colleges duplicates the material of a Pomona course, credit will not be given for both. Since there are changes in course offerings from year to year, the student and his adviser should check carefully to avoid registration for a course in another college which duplicates work taken at Pomona. It should be noted that some courses offered in the other colleges must be taken for the entire year, and consequently credit cannot be allowed for only one semester. In studies involving the use of physical equipment and laboratory space (such as art and science) and in courses conducted in small sections (such as writing and foreign languages), any college may find it necessary to impose limits on the exchange privileges.

Otherwise, within the general regulations governing off-campus registrations in all The Claremont Colleges, Pomona students may register for any courses in the other undergraduate colleges which are open for inter-collegiate registration. A number of these courses are listed in the Pomona College catalog, but registration is not limited to the courses so listed. Consult the mimeographed lists of courses of all the Colleges distributed for pre-registration, or the catalogs of the Colleges, available in faculty offices and in the Registrar's office.

Certain courses in the Claremont Graduate School are also open to Pomona Seniors who are concentrating in the fields in which the courses are offered. Short titles for a few of these courses are given following

departmental offerings. For fuller descriptions and for information about other courses consult the catalog of the Claremont Graduate School. Permission to enroll in graduate courses must be secured from the chairman of the department in which the Senior is concentrating and from the instructor giving the course.

DIVISIONS

The departments of Pomona College are grouped in three divisions as follows:

DIVISION I [*Humanities*] Art, Chinese, Classics, English and Theater Arts, Modern European Languages, Music, Philosophy, Religion.

DIVISION II [*Natural Sciences*] Astronomy, Botany, Chemistry, Geology, Mathematics, Military Science, Physics, Psychology, Zoology.

DIVISION III [*Social Sciences*] Economics, Government, History, Physical Education, Sociology and Anthropology. The concentrations in Asian Studies and in International Relations are conducted mainly within Division III.

Anthropology

See Department of Sociology and Anthropology.

Art

Two types of concentration are open to students of art within the department: the History of Art and the Practice of Art.

CONCENTRATION: HISTORY OF ART

LOWER DIVISION WORK: Art 3, 51a,b, and two introductory art practice courses. Each year, but particularly during the first two years, art history students are encouraged to take courses in classics, literature, music, and philosophy, as well as in German and French or Italian languages.

UPPER DIVISION WORK: At least one upper division art history course in each of the following areas: Ancient, Medieval, Renaissance, Baroque, and Modern. Art 191 the last semester of the Senior year.

CONCENTRATION: PRACTICE OF ART

Emphasis on Painting, Sculpture, or Pre-Architecture.

LOWER DIVISION WORK: Art 3, 51a,b, and two introductory art practice courses. In certain cases upper division courses in art practice may be taken to meet this requirement. Students in pre-architecture are strongly urged to take Mathematics 3a,b, and Physics 2a,b. Each student's program will be arranged according to his interest and ability.

UPPER DIVISION WORK: Five upper division courses in the practice of art, including Art 185 the last semester of the Senior year, and two courses in art history. Courses in the student's special field (painting, sculpture, or pre-architecture) should be taken each semester of the Junior and Senior years.

INTRODUCTORY COURSES

3. ISSUES IN ART

Mr. Baden, Mr. Gray and Mr. Williams

Each Semester. Three sections: T or W or Th 3-6 and 3 hours arranged. A course designed to combine direct studio experience with lectures. Themes and problems of art are pursued in their historical, theoretical and applied aspects. No previous training in the practice of art is expected.

6. INTRODUCTORY DRAWING

Mr. Baden, Mr. Williams

First Semester. Two sections: TTh 9-11, TTh 1:15-3:05 and 2 hours arranged for each section. Second Semester. TTh 1:15-3:05 and 2 hours arranged. May be repeated once for credit.

A course investigating various drawing problems.

9. INTRODUCTORY SCULPTURE

Mr. Gray

Each Semester. MW 1:15-3:05 and 3 hours arranged. May be repeated once for credit.

A basic course in sculpture comprised of a study of form and space.

12. INTRODUCTORY PAINTING

Mr. Baden, Mr. Williams

Each Semester. W 1:15-5:00 and 2 hours arranged. May be repeated once for credit.

A basic course concerned with the fundamentals of painting techniques.

18. DIRECTED PROJECTS

Staff

Each Semester. Arranged. May be repeated once for credit. Course or half-course.

An opportunity for students who are planning to major in the practice of art to do individual work in either painting, sculpture, or drawing.

51a,b. HISTORY OF WESTERN ART

Miss Frisch

First Semester: MWF 11. Second Semester: MWF 9.

A survey of the development of painting, sculpture, and architecture from antiquity to the Renaissance in the first semester and from the Renaissance to the present in the second semester.

99a,b. THE ARTS FOR THE PAST TEN YEARS

Mr. S. Young and Staff

Arranged. Prerequisite: Permission of staff. The course will count as a pass/fail elective and is not included in the program of concentration of any department of the college.

Seminar for Experimental Residence Project of 12 men and 12 women living in selected area of Clark Hall. A seminar in the contemporary arts — painting, sculpture, theater, dance, music, literature — involving some independent work, group projects, and attendance at special events in Claremont and Los Angeles during the year.

HISTORY OF ART

103. THE ANCIENT NEAR EAST AND GREECE *Mr. Merrill*

Second Semester. (Offered in alternate years; offered in 1969-70.)

The art of Egypt, Western Asia and Greece from its beginnings to the fourth century B.C.

104. HELLENISTIC AND ROMAN ART *Mr. Carroll*

Second Semester. (Offered in alternate years; not offered in 1969-70.)

The art of the ancient Mediterranean from the fourth century B.C. to the end of the Roman Empire.

106. MEDIEVAL ART *Miss Frisch*

Second Semester. MW 1:15-2:30. (Offered in alternate years; offered in 1969-70.)

The development of art from the Late Antique through the Gothic, with an emphasis upon painting and sculpture.

110. THE EARLY RENAISSANCE

First Semester. (Offered in alternate years; not offered in 1969-70.)

From Giotto and the origins of the Renaissance in Italy through the fifteenth century, centering on the art of Florence, with attention also to the rest of Italy and Northern Europe.

112. HIGH RENAISSANCE AND MANNERISM *Mr. Merrill*

First Semester. MW 1:15-2:30. (Offered in alternate years; offered in 1969-70.)

Painting, sculpture and architecture of the sixteenth century.

114. BAROQUE ART OF EUROPE *Miss Frisch*

First Semester. TTh 1:15-2:30. (Offered in alternate years; offered in 1969-70.)

The painting, sculpture and architecture of the seventeenth century.

115. ROCOCO AND NEO-CLASSICISM

Second Semester. (Offered in alternate years; not offered in 1969-70.)

European art of the eighteenth century, from the beginnings of the Rococo through the different national variations on Neo-Classicism.

121. AMERICAN ART

Second Semester. (Offered in alternate years; not offered in 1969-70.)

Art in America from the seventeenth through the twentieth centuries, with an emphasis on painting and sculpture.

134. NINETEENTH CENTURY PAINTING AND SCULPTURE *Mr. Glicksman*

First Semester. MWF 9.

The major artistic movements, primarily in France, from 1780 to 1905.

136. TWENTIETH CENTURY ART *Mr. Glicksman*

Second Semester. MWF 10.

Major artists and movements in Europe and America from 1905 to the present, with emphasis upon painting and sculpture.

191. RESEARCH IN ART HISTORY *Staff*

Each Semester. Arranged.

A directed program of independent investigation in a selected area of the history of art. Open only to Senior concentrators.

195. DIRECTED READING

Staff

Each Semester. Arranged. May be repeated once for credit. Permission of chairman required. Course or half-course.

PRACTICE OF ART

105. DRAWING

Mr. Baden

Second Semester. TTh 9-11 and 2 hours arranged. Prerequisite: Art 6 and permission of the instructor. Course or half-course. May be repeated for credit.

Practice in drawing and consideration of particular problems of graphic expression.

125. PAINTING

Mr. Baden and Mr. Williams

Each Semester. F 1:15-5:00 and 2 hours arranged. Prerequisite: Art 12 and permission of the instructor. May be repeated for credit.

A directed program of creative painting in which various painting problems are discussed and possible solutions are explored.

162. SCULPTURE

Mr. Gray

Each Semester. T 1:15-5:00 and 2 hours arranged. Prerequisite: Art 9 and permission of the instructor. May be repeated for credit.

Individual projects involving various media depending upon the student's experience and ability.

185. PROBLEMS IN THE PRACTICE OF ART

Staff

Each Semester. 9 hours arranged.

A course open only to Senior concentrators for the purpose of executing individual projects approved by the instructor.

AVAILABLE AT PITZER COLLEGE

52. HISTORY OF EAST ASIAN ART. Second Semester.

Mr. Hertel

110. PRIMITIVE ART. Second Semester.

Mr. Hertel

120. GREEK ART AND ARCHAEOLOGY. First Semester.

Mr. Glass

AVAILABLE AT SCRIPPS COLLEGE

II-123a,b. CERAMICS I

Mr. Fassbinder

Open to Juniors and Seniors. Prerequisite: II-2 or its equivalent.

II-125a,b. GRAPHICS

Mr. Darrow

Open to Juniors and Seniors. Prerequisite: II-2 or its equivalent.

II-126a,b. ADVANCED COMPOSITION AND DESIGN

Mr. Fuller

Prerequisite: II-2 or its equivalent.

II-129. MOVEMENTS IN MODERN ART. Second Semester.

Mr. Blizzard

II-141a,b. ARCHITECTURAL DESIGN AND PLANNING

Mr. Criley

Open to Sophomores with permission.

II-146a. LATE GOTHIC IN NORTHERN EUROPE. First Semester.

Mr. Smith

II-146b. NORTHERN RENAISSANCE ART. Second Semester.

Mr. Smith

II-148. BYZANTINE ART AND ARCHITECTURE AFTER JUSTINIAN.
First Semester.

Mr. Smith

Asian Studies

Asian Studies is a cooperative program of The Claremont Colleges which provides an opportunity for undergraduate students to pursue an inter-disciplinary program of study. Students who may be interested are advised to begin with History 60CC, "Society and Tradition in East Asia," as an introduction.

The concentration is normally based on at least two years of work in an Asian language and requires seven upper division courses. These should be chosen to form a coherent program with clear emphasis on a single discipline or a single region of Asia. A three-part comprehensive examination is designed individually to reflect the limits and emphasis of the student's program. With the permission of his adviser early in his Senior year, a qualified student who wishes to do research may substitute a thesis for these examinations.

A period of residence in Taiwan, Japan, or another Asian country is recommended. This is usually arranged as a modification of the Pomona Semester Abroad program, extended to a period of seven months by the inclusion of a summer vacation. Study abroad is intended to emphasize the development of linguistic skill and should be planned to follow the third or fourth semester of language training.

The Asian Studies Field Committee advises each college on the concentration. Committee members serve as advisers at their respective colleges. The Field Committee for 1969-70 is composed of the following: Mr. Stanleigh Jones, Claremont Graduate School; Mr. Arthur Rosenbaum, Claremont Men's College; Mr. Allen Greenberger, Pitzer College; Mr. Edward White, Scripps College; and, for Pomona College, Mr. John Haeger (first semester) and Mr. Herbert B. Smith (second semester).

Students may select from the following upper division courses to fulfill the concentration requirements in Asian Studies. Full descriptions of these and additional lower division courses may be found in the appropriate sections of Claremont Colleges catalogs.

HISTORY: Pomona 143, 144, 148; Claremont Men's College 160, 161, 163, 165, 175; Pitzer College 140, 141, 144.

GOVERNMENT: Pomona 129; Claremont Men's College PS133, PS134; Scripps College 129.

RELIGION: Pomona 110, 111, 125G.

ANTHROPOLOGY: Pitzer College 191.

PHILOSOPHY: Claremont Men's College 132G.

COURSES AT THE CLAREMONT GRADUATE SCHOOL (open to qualified Seniors with the permission of their adviser and the course instructors): Government 265a; History 247-8, 249, 250, 255, 251b, 258, 259; Philosophy 277.

Courses in the Chinese language are offered in Pomona College (see Chinese).

The following intercollegiate courses are offered in the Japanese language:

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| 1a-bG. ELEMENTARY JAPANESE
MTWThF 9. | <i>Mr. S. Jones</i> |
| 101a, bG. INTERMEDIATE JAPANESE
MWF 11 and one hour arranged. | <i>Mr. S. Jones</i> |
| 201a, bG. ADVANCED JAPANESE
MWF 2. | <i>Mr. S. Jones</i> |

Information about other courses in Asian languages and literature, including Hindi-Urdu, Thai, and Malay-Indonesian, may be obtained from the Asian Studies adviser.

Astronomy

The major stellar telescopes at the Frank P. Brackett Observatory are a recently rebuilt 12" Newtonian-Cassegrain reflector and a new 6" refractor. Both telescopes are of professional quality possessing features found on the largest research instruments, and are equipped for visual, photographic or photoelectric observations. In the astrophysics laboratory, the analytical equipment available includes an iris photometer, a blink comparator, a linear measuring engine, and a spectrum microdensitometer.

Students who wish to pursue the study of modern astronomy and those preparing for graduate work in astrophysical science will complete the concentration in physics (astronomy option). Details of the student's program are planned in consultation with Mr. Hughes.

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| 1. ELEMENTARY ASTRONOMY
First Semester. MWF 11. No prerequisites. | <i>Mr. Hughes</i> |
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A descriptive, non-mathematical account of the solar system and stellar astronomy. Periodic observation of interesting celestial objects with equipment at the Observatory.

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| 101. OBSERVATIONAL ASTRONOMY
First Semester. Prerequisites: Astronomy 1 and permission of instructor, or Astronomy 61 at Harvey Mudd College. Fee \$8.00. (Omitted in 1969-70; offered in 1970-71.) | |
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Techniques of astronomical observation and reductions of observations for data.

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| 110. ASTROPHYSICS
Second Semester. Arranged. Prerequisites: Physics 100, 101, Mathematics 110. | <i>Mr. G. Bell</i> |
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- Introduction to the theory of stellar atmospheres and interiors; interstellar matter.

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| 199. SELECTED TOPICS
Permission required. Course or half-course. Available to students of proven ability. | <i>Mr. Hughes</i> |
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Directed research or independent study of astronomical and astrophysical problems.

Black Studies

The Center for Black Studies is part of the Human Resources Institute of The Claremont Colleges, which cooperate in offering courses in the field. These courses do not count as outside registrations but are considered part of the curriculum of each of the Colleges. The Director of the Center for Black Studies is Mr. Donald K. Cheek, whose office is at 240 East Eleventh Street.

ECONOMICS

94CC. ECONOMIC HISTORY: THE ROLE OF THE BLACK IN AFRICA AND AMERICA

Mr. Ijere

Second Semester. WF 1:30.

The role of the Black from the opening of the New World to the present is the central theme of this course. In the economic history of Africa, Europe, and the Americas, attention is focused on the landmarks such as the slave trade, the industrial revolution, and the great wars. The Black's contribution to agriculture, industry, commerce, and education are evaluated critically in the light of the shifting economic environment of the period.

96CC. ECONOMICS OF POCKET UNDERDEVELOPMENT: THE GHETTO

First Semester. WF 1:30.

Mr. Ijere

The course emphasizes the various factors retarding economic progress in ghetto areas and the methods by which necessary changes can be effected. To be dealt with in detail are agrarian problems, measures for agricultural development, roles for large and small industries, growth of local entrepreneurship, market problems, financial institutions and mobilization of funds, role of government and economic planning. Several case studies will be utilized.

139CC. ECONOMIC HISTORY OF AFRICA

Mr. Ijere

First Semester. WF 12. Prerequisite: Economics 50 or 51 or 52 or permission of instructor.

Designed to seek understanding of the internal and external factors influencing African economic development into the present century, this course lays emphasis on the growth of and change in various sectors such as agriculture, industry, and commerce, as well as on the impact of various national and international organizations. Special consideration is given to measures designed to improve living standards both in individual states and throughout the African continent.

141CC. PROBLEMS OF HUMAN CAPITAL FORMATION IN AFRICA AND AMERICA

Mr. Ijere

First Semester. TTh 12. Prerequisite: Economics 50 or 51 or 52 or permission of instructor.

This course examines problems connected with the formation and utilization of human capital for more rapid economic growth in the developing areas of Africa and America. To be investigated are various manpower policies and programs of government and quasi-government bodies to train, recruit, and deploy human resources; remedies for unemployment; measures for increasing productivity, effects of wages and incentives; problems of economic and social security; and the role of education to meet present and future needs.

142CC. COMPARATIVE ECONOMIC HISTORY

Mr. Ijere

Second Semester. MWF 10. Prerequisite: Economics 50 or 51 or 52 or permission of instructor.

The emphasis in this course is on the economic history of the United States as compared and contrasted to that of Russia and Japan in the period from 1776 to 1945.

Developments in agriculture, industry, commerce and trade, and business organization and finance will provide the basis for this comparative study in terms of their effects on the social and economic lives of the people. The study of such developments leads to a better understanding of the similarities and differences in the methods of achieving economic growth in the context of the particular characteristics of each country.

EDUCATION

- 272CC. POLICY DETERMINATION IN EDUCATION *Mr. Dymally*
First Semester. Th 4-6. (Offered at Claremont Graduate School.) Open to undergraduate students with permission of instructor.

ENGLISH

- 91CC. INTRODUCTION TO BLACK AMERICAN WRITERS *Mrs. Jackson*
Each Semester. MWF 10.

Selected reading and analysis of short and long fiction, poetry, drama, autobiography, and the essay from the nineteenth century to the present, with a primary focus on materials written since 1930. For Freshmen and Sophomores, the course will emphasize close criticism of representative works through class discussion, lectures, paper writing, and some library research.

- 191CC. BLACK WRITERS IN AMERICA *Mrs. Jackson*
Each Semester. MWF 1.

Readings in fiction, drama, poetry, and the essay written since the turn of the century to the present, with emphasis on contemporary materials. Authors to be studied include W. E. B. DuBois, Richard Wright, Langston Hughes, Ralph Ellison, James Baldwin, LeRoi Jones, Eldridge Cleaver, etc. An advanced survey for Juniors and Seniors, the course will emphasize analytical reading of the material, lectures, class discussion, library research, and paper writing.

- 192CC. SPECIAL STUDIES IN BLACK AMERICAN WRITERS:
LANGSTON HUGHES *Mrs. Jackson*
Second Semester. W 7-10.

Intensive reading and analysis of the major works — poetry, drama, short story, and essay. Open to Juniors and Seniors.

GOVERNMENT

- 138CC. THE BLACK MAN IN AMERICAN POLITICS *Mr. Dymally*
Second Semester. F 1:15-3:55.

After a brief historical review, a study of racism in American government, the Civil Rights movement, minority group coalitions, the impact of reapportionment, Black political personalities, Black Power politics, and the Black voter in California.

HISTORY

- 103CC. RECONSTRUCTION AND ITS AFTERMATH: 1865-1900 *Mr. Namasaka*
Each Semester. MWF 11.

An account of American life in a time of great challenge — the first attempt to establish an interracial democracy. Special attention will be given to the conduct and contribution of Black men who participated in the short democratic experiment

and why it failed. It will further examine the socio-politico-economic relations and tensions between blacks and whites in an effort to understand the present racial crisis in America.

121CC. SLAVERY IN AMERICA: 1619-1865

Mr. Namasaka

Each Semester. T 1:15, Th 1:15-3:15.

This course will be concerned with the Black experience in American society from the colonial period to the Civil War. Some attention will be given to the African way of life — whence most Black slaves came. Special emphasis will be placed on documents and special studies that will show how Black people felt, acted, and reacted to the slave experience, the war, emancipation, and their contributions to the war effort.

132a,b CC. TROPICAL AFRICA

Mr. Dwyer

MWF 9.

An analysis of the history of the African peoples between the Sahara and the Zambesi. First semester: the migrations, civilizations, and empires of pre-colonial Africa with emphasis on the knowledge currently gathered from oral tradition, archaeological, linguistic and other non-documentary sources. Second semester: a detailed consideration of the African peoples under colonial rule and the movement to independence in the twentieth century.

HUMANITIES

90CC. CONTEMPORARY BLACK ARTS

Mr. Crouch

First Semester. MWF 2.

Listening and reading to examine the historical and contemporary importance of American Black music, including music by Coleman, Coltrane, Albert Ayler, Pharaoh Sanders, and the great influence it has had on Black American writing. Emphasis of the first half-semester will be on music appreciation, the second half on literature.

SWAHILI

101CC. INTRODUCTORY SWAHILI I

Staff

First Semester. Arranged.

An introduction to Swahili and to the structure of a Bantu language. May be taken for credit as a one-semester course or as the beginning of a four-semester sequence in the Swahili language. Emphasis on establishing conversational fluency in tutorial sessions.

102CC. INTRODUCTORY SWAHILI II

Staff

Second Semester. Arranged.

Continuation of Swahili I.

151CC, 152CC. INTERMEDIATE AND ADVANCED SWAHILI III, IV

Staff

Both Semesters. Arranged.

Work to be arranged with instructor according to interest and need of students.

Botany

Specialized equipment for individual and class research includes: Plant growth chambers; Warburg manometers; radioactive tracer laboratory; equipment for freeze-drying, chromatography and electrophoresis; ultraviolet spectrophotometer with reflectance and flame photometer units; infra-red carbon dioxide analyzer; oxygen analyzer; plant drying room; deepfreeze cabinet; microtechnique laboratory; culturing apparatus; Epic 3000 calculator; for each student the latest compound microscopes with oil immersion lens and dissecting scopes with Zoom-lens. The Herbarium of Pomona College is composed of 315,000 specimens, and the library matches those of the large universities. The program of study of living plants in the field is unusually extensive.

CONCENTRATION PROGRAMS: Botany 5; Botany 12, 13, 15; Zoology 51 or the equivalent; high school or preferably college chemistry. Satisfaction of one of the following plans:

PLAN I. BOTANY CONCENTRATION: Botany 100, 103, 105, 107, 112, 115.

PLAN II. BOTANY-BIOLOGY CONCENTRATION: One course from each of the following pairs (botany list): 100 or 107, 103 or 112, 105 or 115. A total of 4 courses from the botany list and 3 from the zoology list or 5 from the botany and 2 from the zoology list. Zoology list: 100, 115, 120, 135, 151, 157, 160.

PLAN III. BOTANY-MOLECULAR BIOLOGY CONCENTRATION: Botany 100, 107, 112; Zoology 112, 122, 160; Chemistry 1a,b and 110a,b or 115a,b; Mathematics 30, 31; Physics 2a,b or preferably 51a,b.

SENIOR THESIS OR COMPREHENSIVE EXAMINATION: Seniors under any concentration program are required either (1) to present a satisfactory research paper and to pass an oral examination on the field of the paper or (2) to pass the Senior Comprehensive Examination.

PLANT COLLECTION: All students in botany (plan I or II) should consult Mr. Benson concerning the plant collection built up in various courses. This is a concentration requirement, and the collection must be submitted for inspection at the time of senior comprehensive examinations. Credit for individual work on the collection beyond that in formal courses may be had by registration in Botany 75.

PREPARATION FOR GRADUATE WORK: Students planning graduate work in botany, biology, plant pathology, agriculture, forestry, or landscape architecture will find a liberal arts education with a concentration program in botany a strong background for advanced degrees. For the M.A. or M.S. and the Ph.D. degree students *should consult graduate school catalogs for requirements—for the Ph.D. especially, requirements in chemistry, physics, mathematics, and foreign language.*

AGRICULTURE, FORESTRY, LANDSCAPE ARCHITECTURE: See mimeographed materials at the Botany Department.

Biology 1. HEREDITY AND EVOLUTION

Mr. Phillips

First Semester. MWF 11; laboratory, T 1:15-4:05. Field trips arranged. No prerequisite. Fee \$5.00.

Principles of Mendelian genetics; introduction to population biology; processes and mechanisms of evolution with evidence from field studies.

Biology 3. ELEMENTARY INVESTIGATIONS

Mr. Phillips

Second Semester. MWF 11; laboratory, T 1:15-4:05 and arranged. No prerequisite. Fee \$5.00.

Lectures on selected current botanical investigations; laboratory emphasis upon independent problem-solving observations and experiments.

5. GENERAL BOTANY: EVOLUTION IN ACTION

Mr. Benson

First Semester. Class and laboratory, TTh 1:15-3:30. No prerequisite. Fee \$5.00.

Evolution, emphasizing the dynamic aspects of evolving species and groups of species constituting floras; study in the field of evolution in process; genetics basic to evolution.

12. GENERAL BOTANY: PHYSIOLOGY AND STRUCTURE

Mr. Phillips

First Semester. Class and laboratory, M 2:15-4:05, W 1:15-4:05. No prerequisite. Fee \$5.00.

Physiological processes in plants and the structures underlying them — primarily the physiology of food production — photosynthesis, respiration, nutrition, and water relationships of plants.

13. ENVIRONMENTAL BOTANY

Mr. Phillips

First Semester. No prerequisite. Fee \$5.00. (Offered in alternate years; not offered in 1969-70.)

The effect of environment on individual plants; pollution of the environment.

15. GENERAL BOTANY: FIELD CLASSIFICATION OF FLOWERING PLANTS

Staff

Second Semester. Class and field laboratory, TTh 1:15-3:30. Field trips arranged. No prerequisite. Fee \$5.00.

An elementary discussion and field course in classification of flowering plants. Botany 75 may be taken concurrently. Continued in Botany 75 and 115.

75. INDIVIDUAL PLANT CLASSIFICATION

Mr. Benson

Each Semester. Appointments and arranged. Field trips arranged. Prerequisite: Botany 15. Course or half-course. May be repeated for credit. May be taken as a summer reading course as Botany 198. Fee \$2.00.

Collection and classification of flowering plants, ferns, and cone-bearing trees.

100. MOSSES, FERNS, AND CONE-BEARING TREES

Mr. Benson

First Semester. Prerequisite: Permission of the instructor. Fee \$5.00. (Offered in alternate years; not offered in 1969-70.)

Classification of mosses, liverworts, ferns, conifers, and their living and fossil relatives and their structure, development, and evolution.

103. PLANT ECOLOGY

Mr. Phillips

Second Semester. No prerequisite. Fee \$5.00. (Offered in alternate years; not offered in 1969-70.)

Chaparral, desert, forest, and marine communities; material cycles and productivity of the ecosystem; sampling, mapping, and survey techniques.

105. PRINCIPLES OF EVOLUTION AND TAXONOMY

Mr. Benson

First Semester. TTh 10; laboratory and field trips, F 1:15-4:05; longer field trips arranged. Prerequisite: Botany 5 or 15 or Biology 1. Fee \$5.00. (Offered in alternate years; offered in 1969-70.)

Evolution, relationships, and definition of plant (and animal) groups; introduction to research.

107. ALGAE AND FUNGI Mr. Benson
 Second Semester. Prerequisite: Permission of instructor. Fee \$5.00. (Offered in alternate years; not offered in 1969-70.)

Structure, development, evolution, and classification of algae and fungi.

112. PLANT PHYSIOLOGY – GROWTH AND DEVELOPMENT Mr. Phillips
 Second Semester. MW 8; laboratory, W 1:15-4:05. No prerequisite. Fee \$5.00. (Offered in alternate years; offered in 1969-70.)

Physiological processes and principles – studies of plant growth under controlled conditions; growth and factor measurements; application of hormones; observation of germination; flowering and fruiting.

115. CLASSIFICATION OF VASCULAR PLANTS Staff
 Second Semester. TTh 10; laboratory and field trips, F 1:15-4:05. Prerequisite: Botany 15. Fee \$5.00. (Offered in alternate years; offered in 1969-70.)

Continuation of Botany 15. Classification of flowering plants, ferns, and cone-bearing trees.

149. SEMINAR: BOTANY AND RELATED FIELDS Mr. Benson and Mr. Phillips
 Each Semester. T 7-9 p.m. Prerequisite: Written permission of Mr. Benson. Credit for half-course given for two semesters participation. Graded pass/fail.

Papers by visiting lecturers, the faculty of The Claremont Colleges, and students; occasional trips. Topics in botany and other biological sciences and in fields related to botany.

167. PLANT MICROTECHNIQUE Mr. Carlquist
 First Semester. Prerequisite: Botany 12 or 100 or 115 or the equivalent, or permission of the instructor. Half-course. Fee \$5.00. (Offered in alternate years; not offered in 1969-70.)

Preparation of microscopic materials for slides of plant structures.

198. SUMMER READING AND RESEARCH Staff
 See Botany 75 and 199.

199. BOTANICAL PROBLEMS Staff
 Each Semester. Arranged. Prerequisite: Permission of the instructor. Course or half-course. May be repeated for credit. May be taken as a summer reading course as Botany 198. Fee \$2.00.

Individual studies; reading, laboratory, research or seminar work in selected topics in any field of botany. The student may anticipate preparation of a thesis for the Master's or Doctor's Degree by beginning a problem or continuing one begun in a course.

Graduate work in Botany is offered through the Claremont Graduate School by the joint staffs of Pomona College, the Rancho Santa Ana Botanic Garden, and the Graduate School. The facilities for research in plant classification and ecology are particularly good because the Pomona College Herbarium includes about 315,000 specimens and the combined herbaria of the College and the Botanic Garden about 500,000. The libraries of both institutions have been developed most extensively for work in these fields.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

A wide variety of advanced courses in Botany is available at the Claremont Graduate School to qualified Seniors. Consult the department and the Graduate School catalog. Written permission of the chairman of the Pomona College department and of the graduate instructor is required for enrollment in graduate courses.

Chemistry

CONCENTRATION REQUIREMENTS: Each student supplements a common set of core courses with a set of courses which lies in one of the options listed below. The core courses are: Chemistry 1a,b, 110a,b, 158a,b; Mathematics 30, 31; Physics 51a,b (or 61a,b); computer programming experience; German 50 (or 51) or equivalent. Another language may be substituted with the approval of the Department. The options are:

- (a) Chemistry (without specialization): Chemistry 159, 183, 186 and one course in 199(c).
- (b) Biochemistry: Chemistry 115a,b, 159 or 183; Zoology 112 or an appropriate advanced course in mathematics or physics.
- (c) Chemical Physics: Chemistry 159 or 183; Mathematics 60, 61; an appropriate advanced course in physics or physical chemistry.

Junior and Senior majors are expected to attend the weekly departmental seminars which, in 1969-70, will normally be scheduled on Thursday afternoon. Collaborative research fellowships are usually available to serious students at all levels in the chemical sciences for a ten-week period in the summer; details may be obtained at the Chemistry Department office.

PRE-PROFESSIONAL PROGRAM: A student planning to go to graduate school should, in consultation with his adviser, choose additional courses which will strengthen his preparation in the area of interest selected in options above. This curriculum has been approved by the American Chemical Society Committee for Professional Training of Chemists.

JOINT CONCENTRATION IN CHEMISTRY AND ZOOLOGY: Requirements: Zoology 51, Zoology 112 or 122; Chemistry 1a,b; Chemistry 110a,b, 158a,b; Mathematics 30, 31; Physics 51a,b (or 61a,b); computer programming experience; German 50 (or 51) or equivalent. Another language may be substituted with the approval of the departments. In addition, three upper division courses to be elected from any of the listings of Zoology, Chemistry, or Physics, with the sole restriction that one of these courses must be in Zoology.

1a,b. GENERAL CHEMISTRY *Mr. Smith, Mr. Beilby, Mr. Fass, and Mr. Hansch*
Lectures, MWF 9; laboratory, M,T,W,Th, or F 1:15-5:00. Fee \$6.00.

A beginning course for science majors to acquaint the student with the basic thermodynamic, kinetic and structural principles involved in the chemical and physical changes of the more common elements and their compounds. The lectures are integrated with the laboratory work which is devoted entirely to quantitative analytical and physico-chemical techniques.

4. TOPICS IN MODERN CHEMISTRY *Mr. Allen*
Second Semester. MWF 10.

Discussion of selected topics of current interest in chemistry and biochemistry which relate to problems of interest in modern society. The course is intended for students not majoring in the sciences. No background in science or mathematics is required. Necessary scientific concepts will be developed.

110a,b. ORGANIC CHEMISTRY *Mr. Hansch and Mr. Allen*
Lectures, MWF 8; laboratory, M, T, or W 1:15-5:00. Prerequisite: Chemistry 1. Fee \$6.00.

A study of the syntheses and reaction mechanisms of organic compounds. The laboratory includes both synthesis and qualitative organic analysis.

115a,b. BIOCHEMISTRY

Mr. Cornell

Lectures, MWF 9; laboratory, M, T, or F 1:15-5:00. Prerequisite: Chemistry 110a,b. Fee \$6.00.

First semester: Chemistry of proteins and nucleic acids. Structural and kinetic aspects of enzyme reactions. Lectures and laboratory will emphasize physical-chemical principles and techniques used in studying biological materials. Second semester: Control phenomena in intermediary metabolism. Photosynthesis and oxidative phosphorylation. Biochemistry of genetics and differentiation. Selected topics such as evolution and neurobiochemistry. Laboratory will reflect lecture material.

158a,b. PHYSICAL CHEMISTRY

Mr. Fass

Lectures, MWF 11 and one hour arranged. Prerequisites: Chemistry 1, Physics 51, Mathematics 31.

First semester: Chemical thermodynamics with applications to solutions, equilibrium and electrochemistry; chemical kinetics. Second semester: Introduction to quantum chemistry and statistical thermodynamics; kinetic theory; structure; selected topics.

159. PHYSICAL CHEMICAL LABORATORY

Mr. Fass

Second Semester. Laboratory three afternoons arranged. Organizational meeting at 1:15 on first day of classes. Prerequisite: Chemistry 158a,b (158b may be taken concurrently), computer programming experience. Fee \$6.00.

Selected experimental work in physico-chemical measurements including data processing by computer. For students not taking Chemistry 183 application of physico-chemical measurements to analytical methods may be included.

183. ADVANCED ANALYTICAL CHEMISTRY

Mr. Beilby

First Semester. Lectures, MWF 10 for first 7 weeks, W 10 for the remaining weeks of the semester; laboratory three afternoons arranged during the last 8 weeks of the semester. Prerequisite: Chemistry 158a,b, computer programming experience. Fee \$6.00.

Study of modern methods of chemical analysis with emphasis in the laboratory on instrumental methods of analysis. For students not taking Chemistry 159 physico-chemical measurements may be included in the laboratory.

186. ADVANCED TOPICS IN ORGANIC AND INORGANIC CHEMISTRY

Mr. Beilby and Mr. Hansch

Second Semester. Lectures, MWF 10 and one hour arranged. Prerequisites: Chemistry 110a,b and 158a,b.

Molecular structure, bonding and reaction mechanisms, with emphasis on concepts that are common to both inorganic and organic chemistry.

199. SELECTED TOPICS IN CHEMISTRY

Staff

Each Semester. Arranged. Permission of instructor required. Course or half-course.

The following types of work are available:

- (a) Independent study of advanced subjects not treated in other courses in the department. Examples are: enzymology, biochemistry of macromolecules, lipid chemistry, theory of drug design, natural products, statistical thermodynamics, chemical kinetics, surface chemistry, electroanalytical chemistry.
- (b) Collaborative research in fields for which funds and equipment are available. Examples are: design and synthesis of new drugs, biochemistry of enzymes, photosynthesis and membrane structure, isolation and characterization of lipids, photochemistry of gases, studies in hydrophobic bonding, electrode processes.

(c) Advanced techniques in chemistry, tailored to individual needs and interests. Examples of the types of instruction available are:

- (i) Synthesis and characterization of organic and inorganic compounds.
- (ii) Intensive study and experience with one of the modern research instruments such as the mass spectrometer, nuclear magnetic resonance spectrometer, optical rotatory dispersion spectrometer, electron microscope, analytical ultracentrifuge, neutron generator, high pressure equipment.
- (iii) An integrated combination of (i) and (ii) arranged so as to develop special competence with one of the major instruments normally associated with advanced synthetic laboratory work carried out by other means.
- (iv) Electronics for chemical instrumentation (half-course only).

PHYSICAL BIOLOGY SEMINAR. See Zoology 99.

AVAILABLE AT HARVEY MUDD COLLEGE

157, 158. ADVANCED PHYSICAL CHEMISTRY

Mr. Beckman

Chinese Language and Literature

The concentration in Chinese Language and Literature consists of a minimum of eight upper division courses. Chinese 101a,b is required; two others must be chosen from among History 143, 144 and Chinese 146; the remaining four may be selected from offerings of this department or from suitable offerings of other departments or other Claremont Colleges, with the advice and permission of the Department of Chinese. No more than two of the required courses may be taken outside Pomona College.

1a-b. ELEMENTARY CHINESE

Mr. Tung

MTWF 10.

Introduction to the National Language (Mandarin), both spoken and written.

51a,b. INTERMEDIATE CHINESE

Mr. Tung

MTWF 11. Prerequisite: Chinese 1a-b or equivalent.

Continuation of first year Chinese.

101a,b. INTRODUCTION TO CLASSICAL CHINESE *Mr. Haeger, Mr. Hayden*

MWF 11 and one hour arranged. Prerequisite: Chinese 51a,b or equivalent.

Introduction and experience in reading classical texts including a brief introduction to lexicography, etymology and history of the language.

140. CHINESE LITERATURE IN TRANSLATION

Mr. Tung

First Semester. (Not offered in 1969-70.)

Reading of representative Chinese literary works with lectures and discussions on the Chinese literary tradition, its historical development and genres.

145. CLASSIC CHINESE FICTION

Mr. Tung

First Semester. MWF 9.

Readings from English translations of major Chinese novels and short stories written between the 8th century and the 18th century. Theme of the course in 1969-70: Conformity and rebellion in classic Chinese fiction.

146. LITERARY AND CULTURAL HISTORY OF LATER IMPERIAL CHINA
Second Semester: TTh 1:15. *Mr. Hayden*

The history of Chinese literature and literary criticism from Sung through Mid-Ch'ing, dealing with the evolution of drama and the novel, the relation of society and literature, popular literature and Confucian tradition. Readings from translated literature and secondary studies.

151. MODERN CHINESE LITERATURE IN TRANSLATION *Mr. Tung*
Second Semester. MWF 9.

Chinese literature since 1917 and its political and social implications.

191. SELECTED READINGS IN CHINESE LITERATURE *Staff*
Each Semester. Arranged. Permission of instructor required. Course or half-course. May be repeated once for credit.

Selections from classical and colloquial texts.

195. READING AND RESEARCH *Staff*
Each Semester. Arranged. Prerequisite: Chinese 101a,b or equivalent of three years of instruction in Chinese language. Permission of instructor required. Course or half-course. May be repeated for credit.

Introduction to sinology. Reading programs individually arranged.

SOCIETY AND TRADITION IN EAST ASIA. For description see History 60CC.

HISTORY OF CHINA. For description see History 143, 144.

Classics

A coordinated program is offered by the Classics Departments of The Claremont Colleges.

For concentration in Classical languages and literature a student is required to take at least seven courses in Greek and Latin numbered above 100 and to complete a reading list from Greek and Latin authors in class work or independent study. At least two courses in Modern European languages are strongly recommended. Electives in history, art history, philosophy and European literature are advisable.

For concentration in Classics-Religion, see a member of the Department.

GREEK

- 51a-b. ELEMENTARY GREEK *Mr. Evans and Mr. Howe*
MWF 8 and one hour arranged. Second Semester: Scripps College.

Greek grammar and syntax for beginning students. Selected readings from Classical and New Testament Greek.

- 101a,b. INTERMEDIATE GREEK *Mr. Howe and Mr. Evans*
First Semester: Scripps College. Second Semester: MWF 11. For students with Classics 51a-b or equivalent.

Review of grammar and syntax and selected readings from Herodotus, Euripides, Plato, Homer.

182a,b. GREEK READINGS AND COMPOSITION *Mr. Evans*

Arranged. Second semester may precede first and either course may be repeated for credit. For students with Classics 101 or equivalent.

Readings in the orators, historians, philosophers, dramatists and lyric poets.

LATIN

8a-b. ELEMENTARY LATIN

(Omitted in 1969-70; offered at Scripps College.)

Latin grammar and syntax for beginning students. Selected readings from Caesar, Cicero and Ovid.

58a,b. INTERMEDIATE LATIN

Mr. Howe and Mr. Evans

First Semester: Scripps College. Second Semester: MWF 11. For students with one or two years of secondary school Latin or Latin 8.

Review of grammar and syntax and readings from Cicero, Sallust and Ovid.

181a,b. LATIN READINGS AND COMPOSITION

Mr. Carroll

For students with more than two years of secondary school Latin, Classics 58, or Scripps I-58. Second semester may precede first and either course may be repeated for credit. (Not offered in 1969-70.)

Readings in Latin prose and poetry.

195. READING AND RESEARCH

Mr. Evans

For students who have completed at least one course in classics numbered above 100 and are judged capable of independent study by the department. The course may be taken during the regular term or summer vacation or as part of the Pomona Semester Abroad. Study project must be approved in advance and evaluated at conclusion by the department. May be repeated once for credit.

HEBREW

52a,b. ELEMENTARY BIBLICAL HEBREW

Mr. Whedbee

(Offered in alternate years; not offered in 1969-70.)

Basic elements of Hebrew grammar and translation of selected Old Testament prose passages.

102. READINGS IN BIBLICAL HEBREW

Mr. Whedbee

First Semester. MWF 8. For students with Classics 52b or equivalent.

Review of grammar and readings and exegesis of selected Old Testament prose and poetic material.

GREEK AND ROMAN LITERATURE IN TRANSLATION

121. CLASSICAL MYTHOLOGY

Mr. Glass

Second Semester. TTh 1:15-2:30. No prerequisite. (A joint offering with Pitzer College.)

The structure and interpretation of Greek and Roman myth. Readings from ancient literature in English translation.

HISTORY OF GREECE. For description see History 101.

HISTORY OF ROME. For description see History 102.

ANCIENT ART. For description see Art 103, 104.

For other courses in translation and art history see the catalogs of Pitzer College and Scripps College.

AVAILABLE AT PITZER COLLEGE

102.	THE ROMAN LETTER. Second Semester.	<i>Mr. Glass</i>
120.	GREEK ART AND ARCHAEOLOGY. First Semester.	<i>Mr. Glass</i>
175.	ROMAN SATIRE. First Semester.	<i>Mr. Glass</i>
190.	SENIOR SEMINAR IN CLASSICS	<i>Mr. Glass and Staff</i>
195.	READINGS IN LATIN PROSE AND POETRY	<i>Mr. Glass</i>

AVAILABLE AT SCRIPPS COLLEGE

I-6b.	ELEMENTARY GREEK. Second Semester.	<i>Mr. Howe</i>
I-8b.	ELEMENTARY LATIN	<i>Mr. Palmer</i>
I-58a.	INTERMEDIATE LATIN	<i>Mr. Howe</i>
I-101a.	INTERMEDIATE GREEK	<i>Mr. Howe</i>
I-103.	THE LATIN LYRIC First Semester. (Offered in alternate years; offered in 1969-70.)	<i>Mr. Palmer</i>
I-104.	ROMAN DRAMA First Semester. (Offered in alternate years; not offered in 1969-70.)	<i>Mr. Palmer</i>
I-105.	LUCRETIUS Second Semester. (Offered in alternate years; not offered in 1969-70.)	
I-106.	GREEK COMEDY Second Semester. (Not offered in 1969-70.)	<i>Mr. Palmer</i>
I-108.	ADVANCED LATIN PROSE COMPOSITION Second Semester. (Offered in alternate years; not offered in 1969-70.)	<i>Mr. Palmer</i>
I-177.	ROMAN HISTORIANS. Second Semester.	<i>Mr. Howe</i>
I-178.	THE ROMAN ELEGY First Semester. (Offered in alternate years; not offered in 1969-70.)	<i>Mr. Palmer</i>
I-181.	MEDIEVAL LATIN Second Semester. (Offered in alternate years; not offered in 1969-70.)	<i>Mr. Palmer</i>
I-183.	READINGS IN LATIN LITERATURE. First Semester.	<i>Staff</i>
I-195.	SENIOR COMPREHENSIVE STUDY. Second Semester.	<i>Mr. Palmer</i>

Computing Science

The Computer Center has some of the most advanced equipment available today. An IBM System/360 Model 40 computer has been in use since September, 1965; its present configuration is 128 K characters of storage, 2 disk drives, 4 tape drives, 2 printers, 2 card reader/punches, a console typewriter and a CALCOMP plotter.

Several non-credit courses in computer programming are offered during the year, usually in the afternoon, and they are open to all interested students and faculty. Information about these courses is available at the beginning of each semester at the Computer Center, Millikan 228.

51. INTRODUCTION TO COMPUTING SCIENCE

Staff

Second Semester. MWF 11 and laboratory arranged. Prerequisite: Successful completion of non-credit programming course in FORTRAN IV or PL/I, or permission of instructor. Enrollment limited to 50.

The theory and practice of computer programming. Topics include the interrelation of machine languages, assembly languages and compilers, and a discussion of supervisor systems and modern developments in software. Extensive practical use is made of the IBM System/360, and all students have an opportunity to operate the equipment. (May not be used to clear distribution or non-division requirements.)

Economics

CONCENTRATION REQUIREMENTS: Students majoring in economics may choose either of the following options:

PLAN I. GENERAL ECONOMICS: A total of ten courses is required.

Required courses include Economics 51, 57, 104, 105, and other courses in economics to bring the total of upper division courses to eight. In meeting this requirement one related upper division course in another department may be substituted for a course in economics with permission of the adviser. A suitable course in mathematical statistics may be substituted for Economics 57.

PLAN II. ECONOMICS-MATHEMATICS: A total of ten courses is required.

Required courses in *economics* include 51, 104, 105, and four additional upper division courses; it is recommended that *Econometrics* (Economics 111 at Claremont Men's College or Economics 282 at the Claremont Graduate School) be elected as one of these four additional courses; the remaining three must be chosen from the applied fields of economics. The *mathematics* requirement may be fulfilled with Math 60 and any one of the following mathematics courses: 61, 120, 130, 143, 151, and 156. The *statistics* requirement may be met by completing one of the following: Economics 57, Math 123, 124, 152, 154, or Economics 281 at CGS.

Both Plan I and Plan II culminate in a written comprehensive examination. Students under either plan may choose between nine hours of written examinations, including the Graduate Record Examination Advanced Test in Economics, or the GRE and completion of a major research paper in lieu of the remaining written examinations.

PREREQUISITES: Economics 51 and 52, or equivalent, are prerequisites for all advanced courses in economics, except that students may substitute Economics 104 for Economics 52 with permission of the department. A grade of C or better in prerequisite courses normally is required for concentration in the field.

RECOMMENDED PROGRAMS: Concentrators generally should complete Economics 104 and 105 before electing other upper division courses in areas of special interest. Completion of at least one course in calculus is strongly recommended for *all* majors.

Students who plan to spend a semester abroad should take Economics 104, 105, and at least one course in a field of interest before going overseas.

Students who plan to attend a graduate school of business or enter a corporate training program should elect Economics 57 (or an approved substitute), 71, 104, and 110.

Pre-legal students should elect Economics 71, 110, and 189. Some law schools also require one other course in accounting.

Students who contemplate a career in teaching or research, whether in educational institutions, non-profit research organizations, or private industry, should include courses in mathematics and a foreign language. Both are normally required for advanced degrees in economics.

THREE-YEAR M.A. PROGRAM: Proximity and cooperation between Pomona College and the Claremont Graduate School make it possible for students to plan, beginning with their Junior year, a three-year program enabling them to earn both the B.A. and M.A. degrees. Any student interested in pursuing such a program is invited to confer with the department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS: See Government.

10. FRESHMAN SEMINAR (Limited to 15 Freshmen. Graded pass/fail.)

THE MANY WORLDS OF ECONOMIC MAN

Mr. Tsukahara

First Semester. W 1:15-3:05.

The evolution of economic man in both theoretical and real societies. Focus will be given to both primitive and modern economies as well as utopian systems. Special emphasis on the role of policy in shaping the course of economic systems.

51. ECONOMICS

Staff

First Semester: MWF 8, 9, 10, 11; TTh 1:15-2:30. Second Semester: MWF 9, 10, 11, 1:15.

An introduction to modern economic society with emphasis on the changing social values and institutions of the American economy, its monetary system, the national income, and international trade and development.

52. ECONOMICS

Staff

First Semester: MWF 11. Second Semester: MWF 11; TTh 1:15-2:30. Prerequisite: Economics 51.

An introduction to market price analysis, including applications of its tools to contemporary social problems of the students' choice, such as pollution, poverty, crime, defense, the urban complex.

57. ECONOMIC STATISTICS

Mr. Tsukahara

Second Semester. TTh 8:30-9:50; laboratory, T or W 1:15-3:05.

Quantitative methods applied to economic and business problems; descriptive statistics, probability theory, estimation, inference, correlation and regression techniques.

71. INTRODUCTORY ACCOUNTING

Mr. Williams

First Semester. MWF 8; laboratory, Th or F 1:15-3:05.

Introduction to the theory and practice of accounting in the modern corporation with an emphasis on accounting as a managerial tool.

ADVANCED COURSES

Economics 51 and 52, or equivalent, are prerequisites for all advanced courses in economics, except that Economics 104 may be substituted for Economics 52 with permission of the department.

104. PRICE THEORY

Mr. Likens

Second Semester. MWF 10.

Theories of consumer behavior, demand, production, cost, the firm, market organization, resource use, and income distribution in a modern market economy.

105. NATIONAL INCOME THEORY

Mr. Wykoff

First Semester. MW 10 and sections of two hours each to be arranged.

Investigation of macroeconomic systems with emphasis on Keynesian and post-Keynesian developments. The sections will consist of student presentations and group discussions of empirical investigations.

107. MONETARY THEORY AND POLICY

Mr. Wykoff

Second Semester. MWF 9.

A study of the United States' monetary system, with particular emphasis on its institutions, the Classical, Keynesian and Neoclassical monetary theories, and current issues of monetary policy.

110. LAW AND ECONOMIC ORGANIZATION

Mr. Douglass

Second Semester. (Offered in alternate years; not offered in 1969-70.)

A study of public regulatory practices and the legal framework of the U.S. and other industrial countries; the effects of law on corporate organization and market structure.

111. LABOR ECONOMICS

Mr. Likens

First Semester. MWF 11. (Offered in alternate years; offered in 1969-70.)

Economics of the labor market, trade union history and organization, collective bargaining, current labor legislation, and selected topics such as poverty, discrimination in hiring, economic returns from education, strikes and the public, unemployment and inflation, automation, and unions as a political pressure group.

118. ECONOMIC HISTORY OF THE MODERN WORLD: WESTERN EUROPE

Mr. Palmer

Second Semester. TTh 1:15-2:30. (Offered in alternate years; offered in 1969-70.)

Economic and historical analysis of European industrialization, emphasizing the roles of economic ideas, technology, population change, institutional and social adjustments, and government policy in the development process.

119. ECONOMIC HISTORY OF THE MODERN WORLD: UNITED STATES, RUSSIA, JAPAN

Mr. Palmer

First Semester. (Offered in alternate years; not offered in 1969-70.)

Economic and historical analysis of three major industrialized economies, emphasizing the roles of economic ideas, technology, population change, institutional and social adjustment, and government policy in the development process.

123. INTERNATIONAL ECONOMICS

Mr. Douglass

First Semester: TTh 1:15-2:30. Second Semester: MWF 11.

An introduction to the theory of international trade and finance and to its use in explaining contemporary international economic relations, such as barriers to trade, payments systems, foreign aid and investment, regional integration, and the economic factors in diplomacy.

153. ECONOMIC DEVELOPMENT

Mr. Tsukahara

(Omitted in 1969-70; see Economics 160a,b.)

A study of the processes and problems of promoting economic development in low income countries. Includes discussion of important policy issues such as national economic planning, population control, and international assistance programs.

156. URBAN AND REGIONAL ECONOMICS

Mr. Douglass

Second Semester. (Offered in alternate years; not offered in 1969-70.)

An introduction to the economics of urban growth and decay, with particular attention to the problems of Southern California.

160a,b. APPROACHES TO THE STUDY OF MODERNIZATION:
A COLLOQUIUM*Mr. Tsukahara and Mr. Tugwell*

TTh 2:40-3:55. Prerequisite: Permission of instructor. (Also listed as Government 160a,b.)

An attempt to present a new and integrated perspective on the nature of modernization through cooperative instruction. Emphasis will be placed upon the analysis of political and economic forces and their interaction in the emerging nations.

180. DEVELOPMENT OF ECONOMIC IDEAS

Mr. Palmer

(Omitted in 1969-70.)

An examination of the major innovations in economic theory from Adam Smith to the present which contribute to an understanding of the field of economics. Emphasis is on the evolution of systems of thought and their impact on modern economic doctrines.

189. GOVERNMENT EXPENDITURE AND TAX POLICY

Mr. Bowen

Second Semester. F 1:15-3:05 and one hour arranged.

An analysis of stabilization and allocation problems confronting the federal government, such as the criteria for government spending, the debt burden, inflation, and the effects of taxes on prices, output, profits, and growth.

191. ADVANCED MACROECONOMIC ANALYSIS

Staff

Second Semester. Prerequisites: Economics 57 and 105. (Omitted in 1969-70.)

Selected topics in macroeconomic theory and stabilization policy. Current empirical as well as theoretical controversies will be studied in depth.

192. ADVANCED MICROECONOMIC ANALYSIS

Staff

Second Semester. Prerequisites: Economics 104 and a course in differential calculus. (Omitted in 1969-70.)

Microeconomic theory and welfare analysis applied to topical economic problems.

195. COMPARATIVE ECONOMIC SYSTEMS

Mr. Palmer

First Semester. MWF 9.

A description and comparative analysis of selected economic systems, particularly those of the Soviet Union, Eastern Europe, Mainland China, France, Sweden, and the United States.

- 198a,b. DIRECTED READING AND RESEARCH *Staff*
 Arranged. Open to qualified Seniors with the permission of instructor and chairman of the department.
 Supervised advanced study in selected fields of economics.
199. SENIOR SEMINAR *Staff*
 (Omitted in 1969-70.)
 Reading and discussion of leading books, new developments in economic theory, current problems, and public policies.

FOR ADDITIONAL COURSES SEE BLACK STUDIES.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

This list of courses consists mainly of those which do not duplicate offerings at Pomona College. Concentrators who have completed Economics 51 and 52 may elect economics courses at other undergraduate colleges in Claremont with permission of their advisers. Selected courses at the Claremont Graduate School are open to qualified Juniors and Seniors with the permission of the chairman of the department and the instructor of the graduate course. (See catalog of each college for course descriptions and prerequisites.)

CLAREMONT MEN'S COLLEGE

111. ECONOMETRICS. First Semester. *Mr. Eyrich*
136. INTERMEDIATE ACCOUNTING. First Semester. *Mr. Briggs*
160. ECONOMIC PROBLEMS OF EAST ASIA. Second Semester. *Mr. Hollerman*
184. HISTORY OF ECONOMIC THOUGHT. Second Semester. *Mr. Lindauer*
185. URBAN LAND ECONOMICS. Second Semester. *Mr. Stubblebine*
186. COST ACCOUNTING AND CONTROL. First Semester. *Mr. Gibbs*
199. ECONOMICS OF ADMINISTRATION. Second Semester. *Mr. Thomson*

CLAREMONT GRADUATE SCHOOL

216. GENERAL EQUILIBRIUM ANALYSIS. Second Semester. *Mr. Vandermeulen*
- 218-C. LINEAR PROGRAMMING. First Semester. *Mr. Vandermeulen*
221. GOVERNMENT AND BUSINESS. First Semester. *Mr. Firestone*
- 230-B. MONETARY THEORY AND POLICY. Second Semester. *Mr. Wykoff*
- 243-C. TECHNOLOGY AND MANPOWER. First Semester. *Mr. Bowen*
272. ECONOMIC DEVELOPMENT. First Semester. *Mr. Douglass*
- 281-C. ECONOMIC STATISTICS. First Semester. *Mr. Warner*
- 282-C. ECONOMETRICS. First Semester. *Mr. Warner*

Education

For 1969-70 the adviser on preparation for teaching is Mr. Faust. He will assist students in planning for careers in teaching, and he may be consulted for information on certification requirements in California and other states. In addition, appointments for conferences with Claremont Graduate School Faculty may be arranged by calling the Director of Teacher Education, Harper Hall 16, Ext. 3692: Mrs. Carolyn L. Ellner.

157G. PHILOSOPHY OF EDUCATION

Fr. O'Farrell

First Semester. M 4-6.

This course covers basic educational concepts from the Colonial period to the present time with emphasis on contemporary philosophies of education.

170G. INTRODUCTION TO PUBLIC SCHOOL TEACHING

Second Semester. F 2-5 and arranged.

Mr. Fielder and Staff

This course is planned for Senior students considering a teaching career in elementary or secondary schools. Emphasis is placed upon developing an understanding of the role of public education in contemporary society. Attention is given to the curriculum of the elementary and secondary school, issues and problems of instruction, and an evaluation of current trends and practices in public education. An extensive school and classroom observation program is provided as part of the course. It may comprise the first part of the Claremont Graduate School Teaching Internship Programs.

English

An introductory course (English 10, 15, 20, 25, 30, 35) is the only prerequisite for advanced literature courses. A prospective English major should choose carefully the introductory course best suited to his particular need. Students intending to concentrate in English should take History 1a,b. English 67 is prerequisite for advanced courses in writing.

A reading knowledge of at least one language and literature other than English, as well as high school preparation in Latin, is strongly recommended. In most graduate schools, candidates for the degree of Doctor of Philosophy are required to have a reading knowledge of *two* foreign languages.

CONCENTRATION WITH EMPHASIS ON LITERATURE

- I. Three courses in the periods before 1700 (English 130, 131, 132, 153, 155a OR b, 156, 161).
- II. Two courses in the periods between 1700 and 1900 (English 125, 126, 133, 134, 135, 137, 160).
- III. One course in the period 1900 to the present (English 127, 136, 158, 162, 163, 164).
- IV. Either a Senior Seminar (190) or the Senior Thesis course (197).

CONCENTRATION WITH EMPHASIS ON WRITING

Students who wish to concentrate in writing must demonstrate a satisfactory level of talent, ordinarily in English 67, and obtain permission of the committee on creative writing before being admitted to the concentration.

- I. Two courses in the periods before 1700 (English 130, 131, 132, 153, 155a OR b, 156, 161).
- II. Two courses in the periods between 1700 and 1900 (English 125, 126, 133, 134, 135, 137, 160).
- III. Two courses in the period 1900 to the present. (English 127, 136, 158, 162, 163, 164).
- IV. English 67 and 183. In his senior year a major in writing will submit a substantial writing project in place of the Senior Seminar or Senior Thesis course.

Students are required to read, from a list of major works, books not covered in the courses which they have elected. This supplementary reading will be included in the comprehensive examination.

CONCENTRATION IN THEATER ARTS

This program, administered by the Department of English, is described, with course listings, under Theater Arts.

JOINT CONCENTRATIONS

Consult the chairman of the department for information about joint concentrations in English and Philosophy, and English and History. For the program in American Studies see the description under History.

INTRODUCTORY LITERATURE COURSES

Open only to students meeting the English requirement. Critical papers on literary problems are required in all these courses. Students who need further training in writing are advised to enroll for English 63.

10. FRESHMAN SEMINARS (Limited to 12 Freshmen in each. Graded pass/fail.)

- 10A. THE REVOLT AGAINST REALISM IN TWENTIETH
CENTURY LITERATURE AND ART *Mr. Germain*
First Semester. M 2:15-4:05.

An exploration of such movements as Impressionism, Expressionism, Surrealism and Dadaism as revolts against realism and as artistic strategies for symbolizing the artist's world.

- 10B. D. H. LAWRENCE *Mr. Lowery*
First Semester. M 2:15-4:05.

A study of the novels, stories, poems, and essays of Lawrence, with an emphasis on the role of the modern artist as prophet.

- 10C. TRAGEDY IN THE ENGLISH RENAISSANCE *Mr. Young*
Second Semester. Arranged.

Extensive reading in Renaissance tragedy, together with a study of the theory of tragedy, the Elizabethan stage, and the contemporary theological and philosophical background.

- 10D. BIOGRAPHY, AUTOBIOGRAPHY AND MEMOIRS *Mr. Mulhauser*
Second Semester. Arranged.

After a survey of the nature of life-writing, an intensive study of the biographies and memoirs of an historical period, a field of study, or a circle of artists.

15. GREAT WORKS OF WESTERN LITERATURE

Staff

First Semester (three sections): MWF 9, 10, TTh 1:15-2:30. Second Semester: MWF 9.

A study of major European writers from classical times to the present, including Homer, Dante, Shakespeare, Dostoevsky and Eliot.

20. MAJOR ENGLISH WRITERS

Mr. Holmes

Second Semester. MWF 11.

A study of works of major writers in English representing different periods and forms of literature, from Chaucer to the contemporary period.

25. INTRODUCTION TO FICTION

Mr. Lowery

First Semester: MWF 10. Second Semester: MWF 9.

A survey of important works of prose fiction – English, American, and continental – from the eighteenth century to the present.

30. INTRODUCTION TO DRAMA

Mr. Levine and Mr. Barnes

Each Semester. MWF 11.

A survey of important plays and dramatic theories from the classical period to the twentieth century.

35. INTRODUCTION TO POETRY

Mr. Bracher and Mr. Germain

First Semester: MW 2:15-3:30. Second Semester: TTh 1:15-2:30.

An introduction to lyric poetry in English, with emphasis on John Donne, John Keats, W. B. Yeats, and poetry of the twentieth century.

INTRODUCTORY WRITING COURSES

63. EXPOSITORY WRITING

Mr. Lowery and Mr. Germain

Each Semester. TTh 9. Enrollment limited to 20 students in each section.

Practice in various types of exposition, with emphasis on organization, coherence, clarity, and accuracy of diction.

64. ELEMENTS OF CREATIVE WRITING

Mr. Germain and Mr. Levine

Each Semester. TTh 9. Enrollment limited to 20 students.

Practice in a variety of literary forms, with some attention to technical theory and to the creative process. Primarily for students who do not plan to major in writing.

67. CREATIVE WRITING: A FIRST COURSE

Mr. Young

First Semester. TTh 9. Enrollment limited to 20 students.

Practice in a variety of literary forms. Primarily for students who plan to major in writing.

ADVANCED COURSES

110. ENGLISH LITERARY HISTORY

Mr. Holmes

Second Semester. TTh 1:15-2:30.

Readings in literary history; definition of major periods, genres, and styles.

125. AMERICAN LITERATURE I

Mrs. Jordan

First Semester. TThS 10.

Selected major figures from the beginnings, with emphasis on the nineteenth century through Poe and Hawthorne.

126. AMERICAN LITERATURE II *Mr. Holmes*
Second Semester. MWF 9.

The latter half of the nineteenth century: Melville, Whitman, Emily Dickinson, Twain, James, and Crane or Dreiser.

127. AMERICAN LITERATURE III *Mr. Holmes*
First Semester. MWF 9.

Poems, plays and fiction from the twentieth century, including works of Pound, Eliot, Frost, O'Neill, Anderson, Hemingway, Fitzgerald, Faulkner, and selected writers of the present.

130. MEDIEVAL ENGLISH LITERATURE *Mr. Barnes*
Second Semester. MWF 10.

A close study of major works in the original dialects.

131. TUDOR POETRY AND PROSE *Mr. Barnes*
First Semester. MWF 11.

Major authors of the English Renaissance through the reign of Queen Elizabeth.

132. SEVENTEENTH CENTURY POETRY AND PROSE *Mrs. Jordan*
Second Semester. MWF 9.

A study of the new intellectual milieu and its reflection in the poetry and prose from Bacon and Donne to Boyle and Dryden.

133. AUGUSTAN VOICES AND PERSONALITIES *Mr. Bracher*
Second Semester. TTh 10 and arranged hour.

The lives and writings of representative figures of the Restoration and the eighteenth century.

134. THE ROMANTIC POETS *Mr. Mulhauser*
First Semester. (Omitted in 1969-70.)

The major poets of the Romantic period.

135. VICTORIAN LITERATURE *Mr. Mulhauser*
Second Semester. MW 1:15-2:30.

The major poets and prose-writers of the Victorian period.

136. MODERN BRITISH LITERATURE *Mr. Germain*
Second Semester. MWF 2:15-3:05.

A survey of British poetry, drama and fiction from Yeats to the second World War.

137. ROMANTICISM *Mr. Mulhauser and Mr. Jones*

First Semester. Two sections: M 2:15-4:05; W 2:15-4:05.

Enrollment limited to 18 students in each section.

A study of Romanticism, as manifested in philosophy and the arts.

153. CHAUCER *Mr. Barnes*
First Semester. MWF 10.

A close study of Chaucer's poetry and its backgrounds.

- 155a,b. SHAKESPEARE *Mr. Young*
MWF 11.

A study of the principal plays with emphasis on Shakespeare's dramaturgy and his treatment of dramatic narrative and plot structure. First semester, comedies and histories; second semester, tragedies.

156. MILTON Mr. Lowery
 Second Semester. MWF 10.
 A study of the poems and selected prose works, emphasizing the literary and intellectual background of Milton's work.
158. JOYCE Mr. Frazer
 First Semester. TTh 10.
 Close study of *Dubliners*, *Stephen Hero*, *A Portrait of the Artist as a Young Man*, *Exiles*, *Ulysses*, and parts of *Finnegan's Wake*.
160. THE ENGLISH NOVEL Mr. Pinney
 First Semester. (Omitted in 1969-70.)
 A critical and historical study of the themes and methods of the novel, based mainly on the novelists of the nineteenth century from Scott through James and Conrad.
161. MAJOR BRITISH DRAMATISTS Mr. Levine
 First Semester. TTh 1:15-2:30.
 Shakespeare's contemporaries (Marlowe, Jonson, Webster, Ford) and the chief playwrights of the Restoration and eighteenth century (Dryden, Congreve, Goldsmith, and Sheridan).
162. CONTEMPORARY FICTION Mrs. Jordan
 Second Semester. MWF 11.
 A study of British and American fiction, 1920-1940.
163. CONTEMPORARY POETS Mr. Germain
 First Semester. TTh 1:15-2:30.
 Poetry in English from Pound to the present.
164. CONTEMPORARY DRAMATISTS Mr. Levine
 Second Semester. TTh 1:15-2:30.
 The revolt against existing dramatic forms and against the social and moral standards of the times in the drama from Ibsen to Albee and Pinter.
167. FREUD, MARX, AND CONTEMPORARY THOUGHT
 Second Semester. MW 9. Mr. Erickson and Mr. Frazer
 The influence of Freud and Marx on contemporary literature and philosophy.
171. SURVEY OF LINGUISTICS Mr. Bracher
 Second Semester. MWF 10.
 Historical linguistics; a survey of descriptive linguistics, phonetics, animal communication, writing systems, and semantics.
172. LITERARY CRITICISM Mr. Pinney
 Second Semester. (Omitted in 1969-70.)
 Readings in the major literary critics from Plato to the twentieth century. The course is designed to illustrate the chief forms, topics, and problems of literary theory.
173. THE TEACHING OF LITERATURE Mr. Frazer
 First Semester. Arranged.
 A critical survey of the techniques and materials used in the teaching of literature from the primary grades through college. For students who plan to enter teaching.
175. METHODS OF LITERARY RESEARCH Mr. Lowery
 Second Semester. Arranged.
 Problems and methods of literary research; practice in technical and secondary bibliography. Designed primarily for Juniors as preparation for Senior thesis projects.

183. **ADVANCED CREATIVE WRITING** *Mr. Barnes*
 Each Semester. Arranged. Prerequisite: English 67 and permission of the instructor. Course or half-course. May be repeated for credit. Enrollment limited to 20 students.
 Supervised practice in creative writing.
190. **SENIOR SEMINARS** (Limited to 12 Seniors or, with permission of the instructor, Juniors in each.)
 190A. **ENGLISH PROSE STYLE** *Mr. Mulhauser*
 First Semester. Arranged.
 Close analysis of English prose style from Malory to Durrell.
- 190B. **AMERICAN HUMORISTS** *Mr. Holmes*
 First Semester. W 2:15-4:05.
 American humor of the nineteenth and twentieth centuries.
- 190C. **REVOLUTION, REFORM AND REFORMERS** *Mrs. Jordan*
 Second Semester. Arranged.
 Revolution, reform and reformers as depicted in literature from Henry James and Conrad to Silone and Styron.
- 190D. **SIDNEY AND SPENSER** *Mr. Levine*
 Second Semester. Arranged.
 A study of writings of these two poets, and their literary and philosophical background.
194. **LIFE IN LONDON** *Mr. Mulhauser*
 Offered only to concentrators in English accepted for the Pomona Semester Abroad. Consult department chairman. Half-course.
195. **DIRECTED PROGRAMS IN READING OR WRITING** *Staff*
 Each Semester. Arranged. Prerequisite: Permission of department chairman. Course or half-course.
 Individual programs of reading or of writing (expository or creative) for specially qualified students.
197. **SENIOR THESIS** *Mr. Bracher, Mrs. Jordan*
 First Semester. Arranged. Individually planned reading programs directed toward the writing of a Senior thesis.

FOR ADDITIONAL COURSES SEE BLACK STUDIES.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

This list of courses consists mainly of those which do not duplicate offerings at Pomona College. For additional courses open to inter-collegiate registration, consult the mimeographed list used for pre-registration or the catalogs of the other Claremont Colleges. If a course duplicates one offered at Pomona College, credit will be allowed either for the Pomona course or the course in the other college, but not for both.

CLAREMONT MEN'S COLLEGE

139. **ENGLISH LYRIC.** First Semester. *Mr. Painter*
147. **BRITISH FICTION IN TRANSLATION: 1880-1910.** First Semester. *Mr. Riley*

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| 161. | NINETEENTH CENTURY CONTINENTAL NOVEL. Second Semester. | <i>Mr. Corey</i> |
| 162. | COMIC NOVEL. Second Semester. | <i>Mr. Riley</i> |
| 189. | TWENTIETH CENTURY NOVEL. First Semester. | <i>Mr. Payne</i> |

HARVEY MUDD COLLEGE

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| 151. | LITERATURE AND TECHNOLOGY. Second Semester. | <i>Mr. Davenport</i> |
| 172. | MODERN AMERICAN PLAYS. First Semester. | <i>Mr. Davenport</i> |

PITZER COLLEGE

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| 146. | THE GREAT TRADITION: VICTORIAN NOVEL. First Semester. | <i>Miss Ringler</i> |
| 169. | THE EUROPEAN NOVEL. Second Semester. | <i>Mr. Eisenstein</i> |
| 191CC. | BLACK WRITERS IN AMERICA. First Semester. | <i>Mrs. Jackson</i> |
| Linguistics 103. | AN INTRODUCTION TO GENERAL LINGUISTICS. First Semester. | <i>Mr. Macaulay</i> |

SCRIPPS COLLEGE

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| I-159. | THE MIDWEST IN AMERICAN LITERATURE. First Semester. | <i>Mr. Foster</i> |
| I-160. | THE WEST IN AMERICAN LITERATURE. Second Semester. | <i>Mr. Foster</i> |
| I-165. | PRINCIPLES OF LITERARY CRITICISM. First Semester. | <i>Mr. Bongiorno</i> |
| I-167. | DANTE IN ENGLISH. Second Semester. | <i>Mr. Bongiorno</i> |
| I-107. | GREEK TRAGEDY IN TRANSLATION. First Semester. | <i>Mr. Palmer</i> |

Geology

Outstanding equipment includes Leitz and Zeiss research petrographic microscopes, 13 of which are fitted with universal stages; ore, phase contrast, stereoscopic, and stereopolarizing microscopes are available also. Equipment is available for X-ray diffraction, X-ray fluorescence spectography, electron microprobe analysis, and atomic absorption analysis. The department has a Worden Master gravity meter, an Askania torsion magnetometer, and a Clary DE-600 digital computer. The IBM System/360 in the Seaver Science Center is used in several courses. Surveying equipment includes Kern field instruments and a Zeiss stereotape. The geology library is excellent. Students are encouraged to use these facilities for their own projects.

CONCENTRATION REQUIREMENTS: Mathematics 30, 31, Chemistry 1, Physics 51, and Geology 103, 106, 153a, and 153b or 157 or 159.

PRE-PROFESSIONAL PROGRAM: In addition to the formal requirements given above, a student who expects to go on to graduate work in geology should plan to do additional studies in the geology library and laboratories, and in the field. In so far as his program permits, he should endeavor to include

Chemistry 158, Mathematics 60, or a statistics course, and acquire a reading knowledge of French, German, or Russian. Summer field course is recommended.

1. INTRODUCTION TO GEOLOGY

Mr. Zenger and Mr. Baird

Each Semester. MWF 10. No prerequisites. Fee \$6.00. Each week students are expected to work two to three hours in the laboratory, at times to suit their convenience. Enrollment limited to 36 in each section, with priority to Pomona students.

53. HISTORICAL GEOLOGY

Mr. Zenger

Second Semester. Lectures, MWF 10; laboratory, W 1:15-4:05. Prerequisite: Geology 1. Fee \$6.00.

103a,b. CRYSTALLOGRAPHY AND MINERALOGY

Mr. Morton and Mr. Baird

Lectures, WF 11; laboratory, TF 1:15-4:05. Fee \$6.00 each semester.

106a,b. STRUCTURAL AND FIELD GEOLOGY

Mr. Baird and Mr. Morton

Lectures, TTh 10; laboratory, Th 1:15-4:05. Saturdays and spring vacation must be kept free for field work. Prerequisite: Geology 53 completed or in progress. Fee \$6.00 each semester.

153a,b. PETROLOGY

Mr. Baird and Mr. Zenger

Lectures TTh 9; laboratory, M 2:15-5:05 and arranged. Prerequisite: Geology 103 and, for 153b, Geology 159. Fee \$6.00 first semester.

157. INVERTEBRATE PALEONTOLOGY

Mr. Zenger

First Semester. Lectures, MWF 9; laboratory, T 1:15-4:05 and arranged. Prerequisite: Geology 1 or Zoology 51 or permission of the instructor. Fee \$6.00.

159. STRATIGRAPHY AND SEDIMENTATION

Mr. Zenger

Second Semester. Lectures, MW 9; laboratory, T 1:15-4:05 and arranged. Prerequisite: Geology 53, 103, or permission of instructor. Fee \$6.00.

181. DESIGN AND ANALYSIS OF GEOLOGICAL EXPERIMENTS

Mr. McIntyre

Second Semester. Prerequisite: Permission of instructor. (Omitted in 1969-70.)

Includes the programming and use of computers for solving geological problems.

199. SELECTED TOPICS IN GEOLOGY

Staff

Arranged. May be repeated for credit. Prerequisite: departmental approval. Fee \$6.00.

Special work in certain advanced subjects not treated in other courses of the department is available to students of proven ability.

Government

One of three basic courses — Government 61, 62, or 63 — is normally prerequisite for advanced study, but the department invites students who have had considerable work elsewhere in the social sciences to confer with staff members regarding enrollment in any course desired.

PROGRAM OF CONCENTRATION: Students planning to concentrate in Government should normally take Government 61 and either Government 62 or 63. Also recommended are History 1a, 1b, Economics 51, and an introductory course in Sociology or Anthropology. Beyond these introductory courses completion of the major calls for a minimum of six upper division courses, normally including the Senior Seminar in Government (Government 197), *plus* the writing of an acceptable Senior thesis (which may be done as a reading and research project in Government 191 or 192).

Pre-legal students majoring in Government should strive for breadth in their programs, but should take the course in Constitutional Law and at least a semester's work in accounting.

HONORS STUDY: Students interested in undertaking a program of honors study under the general plan approved by the faculty are invited to formulate a draft proposal and discuss it with the staff of the department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

The Departments of Government and Economics cooperate in offering introductory courses, Government 61 and Economics 51, designed to give the student an understanding of America's political and economic institutions. Although each course meets one of the distribution requirements for graduation, the combination of two courses is recommended for a better comprehension of basic American institutions. For descriptions of each course, see the departmental offerings. Government 61 satisfies the State requirement in American institutions.

10. FRESHMAN SEMINARS (Limited to 15 Freshmen in each. Graded pass/fail.)

10A. CONSCRIPTION: PROBLEMS OF CONSCIENCE, EQUITY, DUTY Mr. Stoddard

Second Semester. T 1:15-3:05.

Problems in the procurement of manpower for U.S. armed forces. Consideration of alternative systems of volunteering and conscription in terms of civilian-military relationships and the "rules of the game" inherent in democracy.

10B. POLITICS IN THE YEAR 2000 Mr. Tugwell

Second Semester. W 1:15-3:05.

The nature of prediction in the social sciences, including a critical review of recent attempts to anticipate and accommodate the political consequences of changes occurring in man's relationship to his physical environment and to his fellow man.

10C. THE AMERICAN PRESIDENCY Mr. Vieg

First Semester. M 2:15-4:05.

Evolution of the office from Washington to Nixon, examination of the various roles today's Chief Executive is expected to play, and analysis of selected problems facing the President and the people, including that of devising a better method for his nomination and election.

10D. CONSTITUTIONALISM AND FREEDOM OF
EXPRESSION

Mr. Flynn

First Semester. W 2:15-4:05.

An examination of the First Amendment from the perspective of its historically intended meaning; the definitions ascribed to the constitutional protection of freedom of expression by various legal writers and judges. Finally, an attempt to apply the fruits of our study to some important contemporary problems: 1) state libel laws, 2) political demonstrations and symbolic speech—parades, sit-ins, and draft card burning, 3) the regulation of obscenity, 4) free speech and fair trial, 5) the regulation of television and broadcasting. These areas will be examined through an analysis of selected judicial decisions and related scholarly commentaries.

61. POLICY-MAKING IN AMERICAN GOVERNMENT *Mr. Flynn and Mr. Vieg*

First Semester: MWF 9, 1:15. Second Semester: MWF 1:15.

Examination of the process of policy-making in Washington based on analysis of Presidential leadership, Congressional procedure, major court decisions, the role of interest groups and mass media, and the civic culture of the American people.

62. COMPARATIVE WESTERN POLITICS

Mr. Tugwell

Each Semester. MWF 8.

Comparative analysis of political forces and governmental institutions in major countries of Europe.

63. COMPARATIVE POLITICAL IDEOLOGIES

Mr. McDonald

First Semester: MWF 10. Second Semester: MWF 11.

A study of four types of twentieth century political thinking: liberalism, fascism, socialism, anarchism.

101. INTRODUCTION TO INTERNATIONAL RELATIONS

Mr. Stoddard

Second Semester. MWF 9.

Geographical and historical determinants of the contemporary state system and the current struggle for power and security. Examination of attempts to achieve world order through understanding, organization, and law.

124G. COMPARATIVE POLITICS: THE DEVELOPING NATIONS *Mr. Goodall*

Second Semester. (Omitted in 1969-70.)

Multi-disciplinary approaches to political development and social change.

129. COMPARATIVE ASIAN POLITICS

Mr. Vieg

Second Semester. MWF 9.

Analysis of the political systems of the nations of contemporary Asia from the standpoint of the struggle between tradition and modernity, with emphasis on Japan, China, India, Pakistan and Indonesia.

131. PARTIES AND PRESSURE GROUPS

Mr. Vieg

First Semester. MWF 11.

The role of parties, interest groups, propagandists and voters in the American electoral and legislative processes.

132. PUBLIC OPINION AND VOTING BEHAVIOR

Mr. Flynn

Second Semester. TTh 1:15-2:30.

Assessment of the role of public opinion and propaganda in modern government, together with quantitative analysis of the voting behavior of citizens and legislators.

136. POLITICAL BIOGRAPHY

Mr. Vieg

Second Semester. (Omitted in 1969-70.)

Analysis of the nature and problems of leadership as reflected in the lives and letters of selected statesmen, American and foreign, Oriental as well as Occidental.

138 CC. THE BLACK MAN IN AMERICAN POLITICS

Mr. Dymally

Second Semester. F 1:15-3:55. For description see Black Studies.

140. PUBLIC ADMINISTRATION AND POLICY

Mr. Vieg

Second Semester. MWF 11.

A study of the role of administrative officials in the making of public policies and the management of the public business at the national, state and local levels.

145G. THE POLITICS OF URBANIZATION

Mr. Blair

First Semester. MWF 10.

Exploration of problems of state and local government, giving special consideration to metropolitan communities and to changing relations within American federalism.

150a,b G. THE URBAN COMPLEX

Mr. Criley and Staff

Th 4.

A seminar on all aspects of urban living, open to upperclass undergraduates and graduate students. Focusing upon the Los Angeles metropolitan region, this seminar will bring an interdisciplinary approach to the problems of urban areas and to the alternatives of policy to ameliorate these problems.

152. INTERNATIONAL LAW AND ORGANIZATION

Staff

First Semester. (Omitted in 1969-70.)

Essential principles of the law of war, peace and neutrality; theory and practice of the United Nations and selected regional and functional organizations; possibilities of world peace through law.

153. NATIONAL SECURITY AND ARMS CONTROL

Staff

First Semester. (Omitted in 1969-70.)

Analysis of selected contemporary problems in national security and arms control policy, e.g., major powers arms competition, violence in and between developing countries, arms control in crises, the economics of defense.

154. COMPARATIVE FOREIGN RELATIONS

Mr. Armacost

First Semester. (Omitted in 1969-70.)

Comparative analysis of the foreign policies of the Great Powers: USA, USSR, UK, France, and China. Particular emphasis will be placed on domestic sources of foreign policy, e.g., structure of government, political ideologies and beliefs, character of political leadership, and socio-economic factors.

155. AMERICAN FOREIGN RELATIONS

Mr. Stoddard

First Semester. MWF 11.

A survey of current procedures for making and implementing American foreign policy. An evaluation of their effectiveness. An analysis of past, present, and alternative policy strategies.

156. THE POLITICS OF MODERNIZATION

Mr. Tugwell

Second Semester. (Omitted in 1969-70.)

A comparative study of cultural, economic, political, and ideological forces important in the development of new states. Emphasis on problems of nationalism, planning, group rivalry, and recruitment of political leadership in selected non-Western areas.

157. INTERNATIONAL RELATIONS OF INTERNAL WARS *Mr. Stoddard*
Second Semester. MWF 10.

A study of the impact of civil wars and domestic mass movements on the international system; comparative study of insurrections and methods of coping with them and of the role of Great Powers in the suppression of conflict. Primary emphasis on the postwar period.

158. LATIN AMERICAN POLITICS *Mr. Tugwell*
First Semester. MWF 10.

Comparative analysis of the political problems and governmental systems of selected Latin American countries, with special emphasis in each case on the nature of socio-economic forces at work.

159. THE UNITED STATES AND LATIN AMERICA *Mr. Housley*
Second Semester. TTh 1:15-2:30.

Analysis of political relations within the Western Hemisphere, with particular emphasis upon contemporary developments in Latin America.

- 160a,b. APPROACHES TO THE STUDY OF MODERNIZATION:
A COLLOQUIUM *Mr. Tsukahara and Mr. Tugwell*
TTh 2:40-3:55. Prerequisite: Permission of instructor. (Also listed as Economics 160a,b.)

An attempt to present a new and integrated perspective on the nature of modernization through cooperative instruction. Emphasis will be placed upon the analysis of political and economic forces and their interaction in the emerging nations.

161. CONSTITUTIONAL LAW *Mr. Flynn*
First Semester. MWF 10.

Nature and extent of constitutional power; separation of powers doctrine; federal-state relations; power of Congress and the Presidency; political and civil rights.

164. THE JUDICIAL PROCESS *Mr. Flynn*
Second Semester. MWF 10.

An analysis of the roles of judges, attorneys, and law enforcement officers in the administration of justice, including some study of judicial behavior. Examination of the working relations between the judicial systems of the nation and the several states.

171. POLITICAL THEORY *Mr. McDonald*
First Semester. TTh 10 and arranged.

The problems of justice, authority, and freedom, seen primarily in the thought of Plato, Hobbes, Rousseau, and Hegel.

- 191, 192. READINGS AND RESEARCH IN GOVERNMENT *Staff*
Each Semester. Arranged. Open only to students who have clearly demonstrated ability to work under self-direction. Course or half-course.
Tutorial programs of independent (including honors) study.

- 193, 194. READINGS AND RESEARCH IN INTERNATIONAL RELATIONS *Staff*
Each Semester. Arranged. Open only to students who have clearly demonstrated ability to work under self-direction. Course or half-course.
Tutorial programs of independent (including honors) study.

195. SENIOR SEMINAR IN INTERNATIONAL RELATIONS *Mr. Stoddard*
 Second Semester. W 2:15-4:05 and arranged. Open to non-concentrators by permission of instructor.

Integration of historical, economic and political aspects of the field, with emphasis upon theory.

197. SENIOR SEMINAR IN GOVERNMENT *Mr. McDonald*
 Second Semester. M 2:15-4:05. Open to non-concentrators by permission of instructor.

The study of politics: mechanistic, organic, and electronic conceptions of politics and their relevance to practical political phenomena.

FOR ADDITIONAL COURSES SEE MEXICAN-AMERICAN STUDIES.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

Many opportunities for appropriate supplementary work in government (and in the other social sciences) are afforded by courses available in Claremont Men's College, Harvey Mudd College, Pitzer College, Scripps College, and the Claremont Graduate School. Pomona students are urged to consider these courses and consult with their advisers about electing them.

WASHINGTON SEMESTER PROGRAM

A plan for a semester's study in Washington, D.C., is described in the section on Special Programs. The program, conducted by American University, provides an opportunity for first-hand study of governmental operations. For further information see page 104 and consult the chairman of the Department of Government.

History

Courses in history are designed to interest students from all areas of study. Only a few are intended specifically for concentrators in history. History 1, or its equivalent, is the usual preparation for other courses in history.

CONCENTRATION: The courses in a program of concentration in history should follow a coherent pattern and be planned carefully in consultation with a member of the History Department to provide sound preparation for the comprehensive examinations of the Senior year. The first examination paper will concern the method and philosophy of history and some comparative interpretation of several historical areas. The other two papers will deal with areas chosen by each student from the following: Ancient History; Europe, 312-1648; Europe since 1648; the United States; Latin America; Africa; the Far East. A fuller explanation of these examinations and a reading list may be obtained from members of the Department. A concentrator's program must include History 140 and five additional upper division courses in history or a closely related subject. Ordinarily it will include History 1a,b (or equivalent), History 99, and work in American or English history. Since the areas of examination are broad, equal familiarity with all aspects is not expected. The department believes that independent reading is an important

supplement to formal courses in preparation for the comprehensive examinations. Each concentrator will also write a "Major Essay" of satisfactory quality. Details regarding the character of the essay may be obtained from members of the department. The essay must be completed before a student may take his comprehensive examinations.

Students considering graduate study should remember that a reading knowledge of one foreign language is normally required for the M.A. and of two foreign languages for the Ph.D. degree.

HONORS PROGRAM: The department urges qualified students to undertake programs of Honors Study. These involve independent study under the direction of a member of the department in place of part of the usual program of formal courses.

JOINT CONCENTRATIONS: Consult the chairman of the department for information about joint concentrations.

AMERICAN STUDIES: An interdisciplinary concentration centered upon significant aspects of the civilization and culture of the United States. The core of the study consists of American history and literature, but students are encouraged to do work in anthropology, economics, the fine arts, government, philosophy, religion, sociology, and other fields as they impinge on the American scene. The concentration in Pomona College is directed by members of the departments of English and History. The American studies seminar (in 1969-70 Scripps History III-180) must be taken by concentrators in both Junior and Senior years. A concentrator must take at least eight upper division courses of a nature appropriate to the concentration. At least six of these will normally be in the fields of American history and American literature. Concentrators will be expected to prepare a satisfactory senior essay on a topic agreed on with a member of the staff. Comprehensive examinations will consist of one in American history, one in American literature, and one related particularly to the student's interdisciplinary work in the field.

The committee in charge of the American Studies concentration consists of: Mr. Holmes, Mrs. Jordan, and Mr. Kemble.

1a,b. **WESTERN CIVILIZATION: ITS HISTORY AND WORLD CONTEXT** *Staff*
Lectures for entire class. TTh 10, and discussion groups arranged.

A survey of the political, religious, intellectual, and economic development of Europe, the expansion of European influence over the world, and the consequent interaction of civilization. Special attention will be given to Western contacts with Asia. First Semester: from Ancient Greece to the end of the Middle Ages. Second Semester: from the Renaissance to the present.

10. **FRESHMAN SEMINARS** (Limited to 12 Freshmen in each. Graded pass/fail.)

10A. **WAR AND PEACE**

Mr. Levy

First Semester. M 7:30 p.m.

An exploration of the causes, varieties, conduct and results of war. After a preliminary examination of several views of "human nature," the readings will include among other sources Homer, Herodotus, Thucydides, the Bible, Caesar, and Shakespeare.

10B. **IMPERIALISM IN HISTORY**

Mr. Dwyer

First Semester. M 7:30 p.m.

A study of several attempts by nations, both ancient and modern, to extend their influence and control. Various motivations will be considered: political, economic, religious, humanitarian and paranoid.

10C. CONSCIENTIOUS DISSENT

Mr. Gleason

Second Semester. TTh 9.

A study of the role in history of men of principle: Socrates, St. Paul, Martin Luther, John Hampden, John Brown, Gandhi, and Martin Luther King.

10D. MAN AND THE SEA

Mr. Kemble

Second Semester. MW 11.

A study of the sea as a barrier and a highway in the history of human affairs. Instances will be selected for examination from the history of exploration, maritime commerce, and naval warfare.

60CC. SOCIETY AND TRADITION IN EAST ASIA

Mr. Haeger

First Semester. MWF 2:15, and sections of 2 hours each: MW 8, 9, 10, 3:15.

A topical introduction to the development of pre-modern political, social, and cultural forms in China and Japan, with correlated, chronological readings. Several major instances of cultural interaction will serve as a framework for presenting related material.

99. SOPHOMORE SEMINAR

Mr. H. B. Smith and Mr. Koblik

Each Semester. T 2:40-3:55 and arranged.

Intended for students planning to concentrate in History, this course is normally elected by Sophomores. Topics: First semester, Patterns of Nationalism; second semester, Patterns of Socialist Party Development.

101. GREECE

Mr. Evans

Second Semester. MWF 9. (Offered in alternate years; offered in 1969-70.)

A survey from the prehistoric age to the Roman conquest with special emphasis on the city-state and democracy.

102. ROME

Mr. Carroll

Second Semester. (Offered in alternate years; not offered in 1969-70.)

The Republic and the Empire from the founding of the city to the sixth Century A.D.

103. THE MIDDLE AGES

Mr. Learnihan

First Semester. TThS 9. (Offered in alternate years; offered in 1969-70.)

A survey of political, intellectual, and religious developments during the transition from Mediterranean to European civilization, from the sixth to the fourteenth century.

104. MEDIEVAL INSTITUTIONS

Mr. Learnihan

First Semester. (Offered in alternate years; not offered in 1969-70.)

A study in some depth of selected political, intellectual, and religious institutions of the Middle Ages.

106. TUDOR AND STUART ENGLAND

Mr. Gleason

First Semester. MWF 8.

The major political, religious, economic, and intellectual achievements of Tudor and Stuart England. The course is designed for concentrators in English as well as for those in History.

107. GREAT BRITAIN AND THE EMPIRE SINCE 1760

Mr. Dwyer

Second Semester. MWF 11.

The development of British society in the two centuries since the accession of George III. The period since 1945 is given special attention. The course is designed for concentrators in English as well as for those in History.

110. REVOLUTIONARY EUROPE

Mr. Poland

Second Semester. TThS 8. (Offered in alternate years, offered in 1969-70.)

A study of the revolutionary changes in European political, intellectual, and economic life between 1648 and 1848 with particular emphasis on the conflict between political absolutism and emerging liberal and democratic movements.

113a,b. EUROPE SINCE 1848

Mr. Koblik

MWF 10.

A survey of political, economic, social and cultural developments in Europe between 1848 and the present, emphasizing the rise of Germany, the effects of industrialization, and the collapse of European hegemony.

114a,b. RUSSIA

Mr. Poland

TTh 8. Course or half-course.

A history of Russia, concentrating on Imperial Russia in the first semester and the Soviet regime the second semester. Preregistration should be for half-course, but can be taken, with the instructor's permission after the beginning of the semester, as a full course by the completion of a major paper.

116. INTELLECTUAL HISTORY OF ANCIENT AND MEDIEVAL EUROPE

Mr. Learnihan

Second Semester. (Offered in alternate years; not offered in 1969-70.)

A study of the formation of the ideas and ideals significant in politics, religion, and literature from classical times to the end of the Middle Ages.

117. INTELLECTUAL HISTORY OF MODERN EUROPE

Mr. Learnihan

Second Semester. TThS 9. (Offered in alternate years; offered in 1969-70.)

A study of the formation of the ideas and ideals significant in politics, religion, and science from Machiavelli to Marx.

118. ECONOMIC HISTORY OF THE MODERN WORLD:
WESTERN EUROPE

Mr. Palmer

Second Semester. TTh 1:15-2:30. (Offered in alternate years; offered in 1969-70.)

See description under Economics 118.

119. ECONOMIC HISTORY OF THE MODERN WORLD:
UNITED STATES, RUSSIA, JAPAN

Mr. Palmer

First Semester. (Offered in alternate years; not offered in 1969-70.)

See description under Economics 119.

120a,b. AMERICAN CIVILIZATION

Mr. Kemble and Mr. White

MWF 11.

A study of significant aspects of the political, economic, and cultural history of the United States as reflected in a series of selected movements, institutions, events, and personalities. First Semester: 1607-1865. Second Semester: since 1865.

122G. THE UNITED STATES, 1815-1877

Mr. Niven

First Semester. MWF 10.

Political, economic, and social developments in the period from the Treaty of Ghent through the Civil War and Reconstruction.

125. AMERICAN SOCIAL HISTORY SINCE 1865

Mr. Harris

Second Semester. MWF 2:15.

A study of the men and forces responsible for social change in America during the last century.

126. CALIFORNIA

Mr. Kemble

Second Semester. (Omitted in 1969-70.)

The economic, cultural, and political development of the region from its discovery to the present.

128. AMERICAN FOREIGN RELATIONS IN THE
TWENTIETH CENTURY

Mr. Campbell

Second Semester. T 1:30-4.

The history of the diplomatic relations of the United States since the Spanish-American War.

130. MODERN MARITIME AND NAVAL HISTORY

Mr. Kemble

Second Semester. (Offered in alternate years; not offered in 1969-70.)

A study of the development of sea power and oceanic commerce from the fifteenth century to the present.

132a,b CC. TROPICAL AFRICA

Mr. Dwyer

MWF 9. For description see Black Studies.

135. SPAIN AND HISPANIC AMERICA: 1400-1810

Mr. Levy

First Semester. (Omitted in 1969-70.)

The study of Spain and its growth as a continental and colonial power, its expansion into America, the development of the colony, and parallel events in both Spain and America to 1810.

136. LATIN AMERICA IN CRISIS: 1810 TO THE PRESENT

Mr. Levy

Second Semester. MWF 9.

Emphasis will be placed on such problems as national organization and integration, changing social structure, the increasing investment of foreign capital, the development of popular movements and ideologies, authoritarianism and the influence of Fidel Castro.

137. PATTERNS OF REVOLUTION IN LATIN AMERICA

Mr. Levy

First Semester. MW 2:15 and arranged.

A detailed consideration of the revolutionary experience of Latin America. Particular attention will be paid to the wars of independence, the phenomenon of the coup d'état, and to the social revolts in Mexico, Bolivia, Guatemala, and Cuba in the context of the theories of revolution expounded by Crane Brinton, H. Arendt, Marx, and Lenin.

140. THE STUDY OF HISTORY

Staff

Each Semester. TTh 2:40-3:55.

An introduction to the methods and philosophies of history through a consideration both of the problems of historical study and of major historians of the past.

143. CLASSICAL AND EARLY IMPERIAL CHINA

Mr. Haeger

Second Semester. Prerequisite: Permission of instructor. (Offered in alternate years; not offered in 1969-70.)

Chinese history from the 5th century B.C. to the 3rd century A.D., emphasizing the evolution of philosophical tradition and its relation to the early history of Imperial government. Readings will be selected from translated documents and other primary source material, and some background in East Asian history will be assumed.

144. MEDIEVAL CHINA

Mr. Haeger

First Semester. TTh 1:15. (Offered in alternate years; offered in 1969-70.)

Chinese history from the 6th to mid-14th century emphasizing the growth of bureaucratic government, changes in society and economy, and the importance of neighboring non-Chinese peoples. Readings from primary and secondary sources.

148. SOUTHEAST ASIA

Mr. H. B. Smith

First Semester. MWF 9.

A survey of the historical development and cultural impact of the peoples of Southeast Asia from earliest times to the present.

151. SCANDINAVIA

Mr. Scott

Secod Semester. MW 2:15-3:30.

A survey of cultural and institutional developments in Scandinavia and the Baltic area from the Bronze Age to the present. The second half of the course will consider special problems of the 19th and 20th centuries, such as growth of democracy, emigration, neutrality, and the Nordic "common front." Largely lectures in first half, research and discussion in second half. Each student will do a special research study, and may choose to present it orally or in written form.

152. SWEDEN SINCE 1864: THE HISTORY OF A WELFARE STATE

Mr. Koblik

Second Semester. (Offered in alternate years; not offered in 1969-70.)

A case study of the effects of industrialization on one country and that country's attempts to adjust to modernity. In conjunction with a study of political and economic developments, emphasis will be placed on such social and cultural problems as class structure, education, and morality.

155. MEN OF PRINCIPLE: CONSCIENTIOUS DISSENT

Mr. Gleason

Second Semester. (Omitted in 1969-70.)

A discussion course. A study will be made of the phenomenon of martyrdom, based upon the lives of several such figures as Socrates, Saint Paul, Joan of Arc, Martin Luther, Thomas Cranmer, John Hampden, John Brown, Martin Niemoller, Gandhi, and Martin Luther King, and of the circumstances which explain their conduct and their importance both in their own time and later.

157. HUMAN MIGRATION

Mr. Scott

First Semester. MW 2:15-3:30.

Comparative studies of migration at different periods and among different peoples, seeking to analyze causes, processes, and effects of human mobility. Lectures, research and discussion.

170. THE FRENCH REVOLUTION

Mr. Poland

First Semester. T 7:30-10 p.m. Prerequisite: permission of the instructor. Limited to 15 students.

A seminar studying the origins, development, and impact on eighteenth century Europe of the revolutionary movement in France. A reading knowledge of French is desirable, but not mandatory.

177. WESTERN AMERICA

Mr. Kemble

Second Semester. MWF 2:15.

The exploration of the trans-Mississippi West and its economic, political, and cultural penetration by Hispanic-Americans and Anglo-Americans from 1528 to 1890. Extensive use of source materials in the Mason, McPherson, and Wagner Collections in the Honnold Library.

190. SENIOR SEMINAR

Mr. Kemble

First Semester. Arranged.

Seminars may be offered from year to year in several fields of history. The topic for 1969-70: American history.

198. INDEPENDENT STUDY

Staff

Each Semester. Arranged. Course or half-course. May be repeated. Open to qualified students for study during the term or the summer. Permission of the member of the department with whom the work is to be done must be obtained prior to registration.

Individual or group programs of reading or research, with papers and examinations as the programs may require.

FOR ADDITIONAL COURSES SEE BLACK STUDIES AND
MEXICAN-AMERICAN STUDIES.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

This list of courses consists mainly of those which do not duplicate offerings at Pomona College. For additional courses open to intercollegiate registration, consult the mimeographed list used for pre-registration or the catalogs of the other Claremont Colleges. If a course duplicates one offered at Pomona College, credit will be allowed either for the Pomona course or the course in the other college, but not for both.

CLAREMONT MEN'S COLLEGE

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| 105. EGYPT OF THE PHARAOHS. First Semester. | <i>Mr. Cooper</i> |
| 106. EARLIEST CIVILIZATION OF THE FERTILE CRESCENT.
Second Semester. | <i>Mr. Cooper</i> |
| 120. MILITARY HISTORY, 1790-1945. First Semester. | <i>Mrs. Rodman</i> |
| 123. RUSSIAN INTELLECTUAL HISTORY. First Semester. | <i>Mr. Rogers</i> |
| 124. RUSSIA AND CHINA. Second Semester. | <i>Mr. Rogers</i> |
| 127. 19TH CENTURY EUROPEAN INTELLECTUAL HISTORY. First Semester. | <i>Mr. Rogers</i> |
| 160. HISTORY OF CHINESE COMMUNISM. First Semester. | <i>Mr. Rosenbaum</i> |
| 163. MODERN CHINA. Second Semester. | <i>Mr. Rosenbaum</i> |
| 165. UNITED STATES AND CHINA. Second Semester. | <i>Mr. Rosenbaum</i> |
| 175. MODERN JAPAN. Second Semester. | <i>Mr. Bickle</i> |
| 178. SOCIAL AND INTELLECTUAL HISTORY OF MODERN MEXICO.
First Semester. | <i>Mr. Koldewyn</i> |
| 180. AMERICAN DIPLOMATIC HISTORY. First Semester. | <i>Mr. Lofgren</i> |
| 184. THE UNITED STATES SINCE 1929. Second Semester. | <i>Mr. Lofgren</i> |
| 191. CONSTITUTIONAL DEVELOPMENT OF THE ATHENIAN POLIS.
Second Semester. | <i>Mr. Cooper</i> |
| 193. EUROPEAN LIBERALISM. First Semester. | <i>Mrs. Rodman</i> |

HARVEY MUDD COLLEGE

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| 105. HISTORY OF SCIENCE (3). First Semester. | <i>Mr. Rae</i> |
| 106. HISTORY OF SCIENCE (4). Second Semester. | <i>Mr. Rae</i> |

PITZER COLLEGE

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|------|---|------------------------|
| 120. | EARLY MODERN EUROPE: RENAISSANCE AND REFORMATION.
Second Semester. | <i>Mrs. Shapiro</i> |
| 130. | FROM BISMARCK TO HITLER: GERMANY 1871-1945.
First Semester. | <i>Mr. Warmbrunn</i> |
| 141. | INDIA SINCE 1707. First Semester. | <i>Mr. Greenberger</i> |
| 156. | THE UNITED STATES IN THE 20TH CENTURY. First Semester. | <i>Mr. Everett</i> |

SCRIPPS COLLEGE

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| III-116. | AMERICAN RENAISSANCE. Second Semester. | <i>Mr. White</i> |
| III-130a,b. | FRANCE IN THE 19TH CENTURY. | <i>Mr. Brogden</i> |
| III-131a,b. | NATIONALISM, LIBERALISM, SOCIALISM. | <i>Mr. Brogden</i> |
| III-140. | HISTORY OF THE EARLY MIDDLE AGES. First Semester. | <i>Mr. Blaine</i> |
| III-141. | HISTORY OF THE LATER MIDDLE AGES. Second Semester. | <i>Mr. Blaine</i> |
| III-149. | TECHNOLOGY IN CIVILIZATION, I. First Semester. | <i>Mr. Blaine</i> |
| III-150. | TECHNOLOGY IN CIVILIZATION, II. Second Semester. | <i>Mr. Blaine</i> |
| III-155. | RENAISSANCE ITALY. First Semester. | <i>Mr. Geerken</i> |
| III-156. | REFORMATION EUROPE: 1500-1648. Second Semester. | <i>Mr. Geerken</i> |
| III-157. | PROBLEMS IN RENAISSANCE THOUGHT. First Semester. | <i>Mr. Geerken</i> |
| III-158. | PATTERNS OF REFORMATION THOUGHT. Second Semester. | <i>Mr. Geerken</i> |
| III-180. | AMERICAN STUDIES SEMINAR
First Semester. Required for students concentrating in American Studies. | <i>Mr. Foster</i> |

CLAREMONT GRADUATE SCHOOL

Certain graduate courses and seminars are open to qualified Seniors with the consent of the instructor and the approval of the chairman of the department.

International Relations

The concentration in International Relations is governed by a faculty committee representing the several departments offering courses required for the concentration. For 1969-70 members of the Committee on International Relations are Messrs. Poland (chairman), Douglass, Housley, Koblik, H. B. Smith, Stoddard, Sytek, and Tugwell.

Eight courses of upper division work are to be taken from the offerings listed below. Within this list, while some electives are allowed, a number of courses are specifically required. Lower division prerequisites for courses in the upper division should be met in the Freshman and Sophomore years. These are Government 61 or 62, Eco-

nomics 51 and 52, and History 1; students desiring to emphasize international social and economic development should take Sociology 51 in addition.

Proficiency in at least one modern foreign language is required. Students of Chinese may satisfy the requirement by completing Chinese 101b. Others will normally be expected to complete two upper division courses beyond French 60, Spanish 60, German 60, Italian 60, or Russian 60. Whenever possible foreign language study should be undertaken in the Freshman year, but in any event the second year language course must be successfully completed by the end of the Junior year. Those majors with already strong experience in a language may be excused from taking courses after an oral and written examination administered by a member of the appropriate department; this examination must be passed no later than April 15 of the Junior year.

A Senior thesis involving intensive research in some aspect of international relations of special interest to the concentrator is to be submitted to the Chairman of the Committee by May 25 of the Senior year. The research and writing of the thesis is to be completed within a departmental readings and research course in either the first or second semester of the Senior year. In order to encourage background reading in the summer, the Committee requires submission of a tentative title for the Senior thesis by May 15 of the Junior year.

Under carefully defined conditions, the concentrator in International Relations is encouraged to participate in the Pomona Semester Abroad Program. Secure detailed description from faculty adviser or the committee chairman.

The comprehensive examination consists of two written examinations, and an oral examination before three members of the Committee. One portion of the written examination will be in the foreign language of the student's choice.

For specific descriptions of the courses listed below see the departmental listings:

I. CORE COURSES (6 courses required:)

1. Government 101. INTRODUCTION TO INTERNATIONAL RELATIONS.
2. History 113b. EUROPE SINCE 1848.
3. Economics 123. INTERNATIONAL ECONOMICS.
4. Government 155. AMERICAN FOREIGN RELATIONS.
5. Government 195. SENIOR SEMINAR IN INTERNATIONAL RELATIONS.
6. Government 193, 194; History 198; Economics 198a, 198b; or Sociology 199.
(The Senior thesis is written in one of these courses.)

II. TWO COURSES UNDER EITHER A OR B OR C:

A. Regional Courses (two courses on the same region):

EUROPE: Government 154; History 107, 113a, 118, 151; CMC History 92, 127, 240c; CMC Political Science 135; Pitzer History 37, 130, 133; Scripps III-130a,b, III-131a,b; CGS Government 264.

THE SOVIET AREA: Government 126G, 127G; History 114a,b; CMC History 123, 124.

LATIN AMERICA: Government 158, 159; History 136, 137; CMC History 178; CGS Government 268.

ASIA: Government 129; History 60CC, 144, 148; CMC Economics 160; CMC History 160, 163, 175, 256c; CMC Political Science 133; Pitzer History 141, 250.

AFRICA: Anthropology 142, 144; History 132a,b; Pitzer Political Studies 138.

B. Economic and Social Development:

Anthropology 137. PRIMITIVE LAW AND GOVERNMENT.

Economics 160a,b. APPROACHES TO THE STUDY OF MODERNIZATION.

Government 160a,b. APPROACHES TO THE STUDY OF MODERNIZATION.

Sociology 130. POLITICAL SOCIOLOGY.

Sociology 153. SOCIAL MOVEMENTS.

Sociology 161. SOCIAL STRATIFICATION.

CMC Economics 107. ECONOMIC DEVELOPMENT.

CMC Political Science 107. THE POLITICS OF POPULATION.

Pitzer Sociology 30. SOCIOLOGICAL PERSPECTIVES ON INDUSTRIAL SOCIETY.

Pitzer Sociology 115. POWER AND CHANGE.

Pitzer Sociology 181. INDUSTRIALIZATION AND SOCIAL PROCESSES.

HMC Political Science 101. DESIGNS FOR DEVELOPMENT.

C. National Security Policy:

Government 157. INTERNATIONAL RELATIONS OF INTERNAL WARS.

CMC Political Science 181. DIPLOMACY AND MILITARY POWER.

CGS Government 252I. INTERNATIONAL ORGANIZATION.

Note: Government 193, 194, "Readings and Research in International Relations," may be applied above according to the nature of the work undertaken. In addition courses at Claremont Graduate School are open to Seniors with the permission of the instructor and approval of the chairman of the International Relations Committee.

Mathematics

EQUIPMENT: The department has excellent library facilities. An IBM System/360 digital computer is available for student use. Other equipment includes a Bendix G-15 digital computer and desk calculators.

REQUIREMENTS FOR CONCENTRATION: Mathematics 30, 31, 60, 61; and at least six upper division courses. Concentrators in Mathematics are urged to take several courses in a field in which mathematical applications are of importance. Philosophy 135 and 150 and Claremont Men's College Philosophy 150 are also recommended.

UPPER DIVISION PROGRAM: The student should arrange his program, in consultation with the staff, to suit his individual interests and goals. The courses offered at The Claremont Colleges can serve as preparation for graduate study in pure mathematics, applied mathematics, mathematical statistics, or computer science; or for careers in high school or elementary teaching or the application of mathematics to management and decision problems.

Students planning to work for advanced degrees in mathematics or statistics are encouraged to acquire a reading knowledge of Russian, German or French.

HONORS PROGRAM: Students interested in honors study should consult a member of the Department for information concerning this program.

PLACEMENT: All Freshmen who wish to enroll in a mathematics course should attend the advisory session on Mathematics on the Monday preceding registration. Students who have passed the Advanced Placement Examination of the College Entrance Board with a high score may with departmental approval receive credit for all or part of Mathematics 30, 31.

2. FUNDAMENTALS OF MATHEMATICS

Mr. Hales

Second Semester. MWF 1:15-2:05. Prerequisite: High school algebra and geometry.

This course is designed primarily for non-mathematics majors. It is a survey of the simple and elegant ideas and techniques which pervade mathematics, from algebra to topology, analysis to geometry, and logic to number theory. Some history of mathematics will be included.

3a,b. INTRODUCTION TO COLLEGE MATHEMATICS

Mr. Yale

MWF 8. Prerequisite: High school algebra and geometry.

The two-semester sequence is designed to prepare students for Mathematics 30 and 123 as well as to provide a general mathematical background for students in the social and biological sciences.

20. ANALYTIC GEOMETRY AND ELEMENTARY FUNCTIONS

Mr. Hamilton

First Semester. TThS 10. Prerequisite: Three years of high school mathematics.

A one-semester course designed to prepare students for Mathematics 30, 31.

30. ANALYTIC GEOMETRY AND CALCULUS I

Staff

First Semester: MWF 8, 10, 11; TThS 10. Second Semester: MWF 1:15. Prerequisite: Mathematics 3 or 20 or a satisfactory score on the placement examination.

Mathematics 30 and 31 comprise a standard integrated course in analytic geometry and calculus.

31. ANALYTIC GEOMETRY AND CALCULUS II

Staff

First Semester: MWF 10. Second Semester: MWF 9, 10, 11.

Continuation of Mathematics 30.

53. APPLIED LINEAR ALGEBRA

Mr. Tolsted

Second Semester. MWF 9. Prerequisite: Mathematics 3 or 30. (Offered in alternate years; offered in 1969-70.)

A course on matrices, linear algebra, logic, and elementary probability theory designed especially for students in the behavioral sciences.

60. LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS I

Staff

First Semester: MWF 11, TThS 9. Second Semester: MWF 10. Prerequisite: Mathematics 31.

An integrated course in linear algebra and differential equations, with diverse applications.

61. LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS II

Staff

First Semester: MWF 8, 11. Second Semester: MWF 11, TThS 9. Prerequisite: Mathematics 60.

Continuation of Mathematics 60.

120. NUMERICAL ANALYSIS AND DIGITAL COMPUTERS

Mr. Cooke

Second Semester. MWF 10 and laboratory arranged. Prerequisite: Mathematics 61; Mathematics 130 is recommended.

Introduction to numerical and computer algorithms for interpolation, quadrature, the solution of algebraic and differential equations, and allocation and flow problems from mathematical economics.

123. STATISTICS FOR BIOLOGICAL AND SOCIAL SCIENTISTS *Mr. Tolsted*
First Semester. MTWF 10. Prerequisite: Mathematics 3 or 30, or permission of the instructor. Not open for credit to students who have taken Mathematics 124 or 152.

A decision theoretic introduction to the basic technique of statistical inference including the motivation for and application of point estimators, interval estimators, tests of hypotheses, regression and analysis of variance. Emphasis will be upon application in the biological and social sciences.

124. PROBABILITY THEORY AND STATISTICAL INFERENCE

Mr. Krieger, Mr. Hales

MWF 8. First Semester: Harvey Mudd College. Second Semester: Pomona College. Prerequisite: Mathematics 60. Not open for credit to students who have taken Mathematics 123 or 152.

Foundations of probability theory. Survey of the probability laws most often encountered in applications. Estimation of parameters, confidence intervals, and tests of hypotheses.

130. ADVANCED CALCULUS I

Mr. Cooke and Mr. Mullikin

MWF 9, 1:15. Prerequisite: Mathematics 61 or permission of instructor.

The real number system, introductory general topology, limits, sequences, continuity, the Riemann integral, improper integrals, uniform convergence, Taylor and Fourier series, partial derivatives, multiple integrals.

131. ADVANCED CALCULUS II

Mr. Cooke and Mr. Mullikin

Second Semester. MWF 9, 1:15. Prerequisite: Mathematics 130.

Continuation of Mathematics 130.

141. GEOMETRY

Second Semester. (Offered in alternate years at Harvey Mudd College; offered at Harvey Mudd College in 1969-70.) Prerequisite: Mathematics 61 or Harvey Mudd Mathematics 52 or permission of instructor.

Selected topics from Euclidean geometry, affine geometry, projective geometry, and convexity.

143. COMBINATORIAL MATHEMATICS

Mr. Yale

Second Semester. TTh 2:40-3:55. Prerequisite: Mathematics 53 or 60.

Counting methods, generating function, introduction to the theory of graphs, matching theory, transport networks. Applications to physical and social sciences, economics, and management.

145. TOPOLOGY

Mr. Williamson

First Semester. MWF 9. Prerequisite: Mathematics 130. Not open for credit to students who have taken Harvey Mudd Mathematics 102.

Selected topics in point-set, combinatorial, and algebraic topology.

151. PROBABILITY

Mr. Yale

First Semester. MWF 11. (Offered in alternate years at Harvey Mudd College; offered at Pomona College in 1969-70.) Prerequisite: Mathematics 61.

A measure-theoretic introduction to probability. Topics will include probability measures, expectation, limit theorems, Markov chains, and common probability laws.

152. STATISTICS

Mr. Bentley

Second Semester. MWF 11. Prerequisite: Mathematics 151. (Offered in alternate years at Harvey Mudd College; offered at Pomona College in 1969-70.)

An introduction to the general theory of statistical inference, including estimation of parameters, confidence intervals, and tests of hypotheses.

154. STOCHASTIC PROCESSES

Second Semester. (Omitted in 1969-70; offered in 1970-71.) Prerequisite: Mathematics 151.

An introduction to the theory and application of stochastic processes with special emphasis on the following processes: Markov, renewal, birth and death, Poisson, counting, stationary.

155. NUMBER THEORY

Miss Beechler

First Semester. TTh 2:45-4. (Offered at Pitzer College in 1969-70.) Prerequisite: Mathematics 32 or 50.

Unique decompositions, congruences and arithmetic functions. Solved and unsolved problems in the theory of numbers.

156. OPERATIONS RESEARCH

Mrs. Myhre

Second Semester. (Offered in alternate years at Claremont Men's College; offered at Claremont Men's College in 1969-70.) Prerequisite: Mathematics 124.

The use of mathematical theory and methods to solve problems arising in industry, government and business. Mathematical models of inventory, reliability and replacement, queuing, sequencing and transportation. Stochastic processes including Markov chains; simulation.

160. APPLIED MATHEMATICS

Mr. Miller

First Semester. MWF 8. Prerequisite: Mathematics 61.

Topics selected from problems in applied mathematics.

164. ADVANCED DIFFERENTIAL EQUATIONS

Mr. Cooke

Second Semester. MWF 8. Prerequisite: Permission of the instructor.

Selected topics from the theory of ordinary, partial, integral, and functional differential equations.

171. ABSTRACT ALGEBRA I

Mr. Hales

First Semester. MWF 10. Prerequisite: Mathematics 61.

Construction of the complex number system, fields, Galois theory, and arithmetic in quadratic number fields. Vector spaces, rings, and groups. Selected topics.

172. ABSTRACT ALGEBRA II

Mr. Hales

Second Semester. MWF 10.

Continuation of Mathematics 171.

181. FUNCTIONS OF A COMPLEX VARIABLE

Mr. Hamilton

Second Semester. TThS 10. Prerequisite: Mathematics 61 or permission of the instructor.

Algebra and calculus of functions of a complex variable, Cauchy's Theorem, Taylor and Laurent expansions, conformal mapping, entire functions, meromorphic functions.

197. SEMINAR AND RESEARCH

Staff

Arranged. Course or half-course. Prerequisite: Departmental approval.

Independent reading and research, and seminars in selected topics of higher mathematics are available to students of proven ability.

198. SUMMER RESEARCH

Open by invitation to students of proven ability. A written report and an oral presentation of the results of the summer's work are required.

199. CLAREMONT MATHEMATICS SEMINAR *Mr. Krieger and Mr. Orland*

Second Semester. Arranged. Prerequisite: Permission of the instructor.

A seminar on varying subjects offered every year at one of The Claremont Colleges. In 1969-70 the seminar will be offered at Harvey Mudd College on the subject: Information Theory.

MATHEMATICAL AND STOCHASTIC BIOLOGY. See Zoology 175.

MATHEMATICAL AND SYMBOLIC LOGIC. See Harvey Mudd College Mathematics 139 and 140.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

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CLAREMONT MEN'S COLLEGE

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| S127. PROBABILITY. First Semester. | <i>Mr. Ferling</i> |
| S128. STATISTICAL INFERENCE. Second Semester. | <i>Mrs. Myhre</i> |

HARVEY MUDD COLLEGE

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| H133. PARTIAL DIFFERENTIAL EQUATIONS. First Semester. | <i>Mr. Busenberg</i> |
| H139. SYMBOLIC LOGIC. First Semester. | <i>Mr. Fickas</i> |
| H140. SYMBOLIC LOGIC AND METAMATHEMATICS. Second Semester. | <i>Mr. Vickers</i> |
| H142. DIFFERENTIAL GEOMETRY. First Semester. | <i>Mr. Orland</i> |
| H147-8. TOPOLOGY | <i>Mr. Greever</i> |

CLAREMONT GRADUATE SCHOOL

- 235a,b. INTRODUCTION TO APPLIED ANALYSIS
245. GENERAL TOPOLOGY
- 255a,b. LINEAR STATISTICAL ANALYSIS
- 271a,b. ALGEBRA
- 281a,b. COMPLEX ANALYSIS
- 282a,b. REAL ANALYSIS

Mexican-American Studies

The Center for Mexican-American Studies is part of the Human Resources Institute of The Claremont Colleges, which cooperate in offering courses in the field. These courses do not count as outside registrations but are considered part of the curriculum of each of the Colleges. The Director of the Center for Mexican-American Studies is Mr. Ronald Lopez, whose office is at 1030 North Dartmouth Avenue.

GOVERNMENT

75CC, 76CC. CONTEMPORARY POLITICS OF THE SOUTHWEST *Mr. Munoz*
Both Semesters. MWF 9. Prerequisite for 76CC: 75CC or permission of instructor.

Analysis of the Southwestern political system. Interaction of Mexican Americans with federal, state, and local government. Comparative study of ethnic groups in their attempts to participate in government. Internal barrio politics and farm labor politics; external efforts to manipulate their systems. Examples from the East, South, and other regions will be drawn upon to illustrate the special character of the Southwestern political system. First semester will emphasize conceptual framework and the political ideology of social movements. Second semester will focus on barrio politics, the farm labor movement, and other movements.

HISTORY

80CC. THE SOUTHWESTERN UNITED STATES IN THE NINETEENTH CENTURY *Staff*

First Semester. Arranged.

Ethnic origins of population. History of social, political, and economic developments with special emphasis on interaction among ethnic components of the population.

81CC. THE SOUTHWESTERN UNITED STATES IN THE TWENTIETH CENTURY *Mr. Lopez*

Second Semester. M 7.

Study of social, political, and economic institutions with special emphasis on the Mexican American in California. The history of immigration, expatriation, and farm labor will receive particular attention.

178CC. SOCIAL AND INTELLECTUAL HISTORY OF MODERN MEXICO *Mr. Koldewyn*

First Semester. TTh 1:30-2:45.

Ethnic origins of Mexico's *mestiza* culture. Social patterns and intellectual currents during the nineteenth and twentieth centuries.

PSYCHOLOGY

80CC. PSYCHOLOGICAL DEVELOPMENT IN MEXICAN-AMERICAN CHILDREN AND YOUTH *Mr. Ramirez*

First Semester. MW 4-6.

Effects of the Mexican-American culture, the forces of acculturation, and the Civil Rights movement on the personality development of the child and adolescent. Although the course will focus on Mexican Americans, comparisons will also be made with Afro- and Anglo-Americans.

153CC. THE MARGINAL MAN: EXPERIMENTS AND
RESEARCH IN PERSONALITY

Mr. Ramirez

Second Semester. MW 4-6. Prerequisites: Introductory Psychology and Statistics, or permission of instructor.

A review of current personality research with emphasis on the relationship of social institutions to identify problems of the bi-cultural person, that is, "the marginal man." Students will design and carry out research projects.

SOCIOLOGY

66CC. SOCIOLOGY OF THE MEXICAN AMERICAN

Mr. Sena Rivera

First Semester. TTh 10.

Sociological perspectives on family patterns, social structure, and Mexican culture in general within the context of another dominant culture.

90CC. MEXICAN-AMERICAN SOCIAL PROBLEMS

Mr. Sena Rivera

Second Semester. Prerequisite: Sociology 60CC or Introductory Sociology or permission of instructor.

Analysis of cases and the consequences of poverty, crime, and delinquency, family dissolution, and deviant behavior. Sociological aspects of formal institutions as they relate to Mexican Americans. Comparative study involving formal institutions and other ethnic minorities.

SPANISH

10CC, 11CC. SPANISH AS A NATIVE LANGUAGE: LEVEL I

Miss Ibarra

Both Semesters. MWF 1:30.

Basic concepts of language for use in oral and written communication. All course work in Spanish. Intended primarily for students who already have some familiarity with the sound of Spanish.

50CC, 51CC. SPANISH AS A NATIVE LANGUAGE: LEVEL II

Staff

Both Semesters. MWF 3:30.

Advanced practice in written and spoken use of Spanish. Introduction to some Mexican and Chicano literary works and newspapers. All course work in Spanish. Intended primarily for students who already have some familiarity with the sound of Spanish.

173CC. THE LITERATURE OF MEXICO

Mrs. Sheldon

First Semester. MW 1:15-2:30. Prerequisite: Permission of instructor.

Mexican literature with emphasis on contemporary works.

Military Science

The purpose of the Reserve Officers Training Corps (ROTC) is to produce college-trained officers for the United States Army. Upon receiving the baccalaureate degree and completing the ROTC program, graduates are commissioned in the Army Reserve or Regular Army in the grade of second lieutenant. Officers appointed in the Army Reserve normally serve on active duty for a two-year period. For those inclined toward a military career, there is also the opportunity for selection as Distinguished Military Graduates, who are offered Regular Army commissions. Each graduate is commissioned, insofar as possible, in a branch of the Army corresponding to his wishes and major academic field. Finally, for those interested in graduate schooling, delays in call to active duty are permitted for that purpose.

Pomona College students are afforded the opportunity to enroll in either a two-year or four-year program. The four-year program consists of the basic course, which is taken during the Freshman and Sophomore years, and the advanced course which is taken during the Junior and Senior years. Students who have had previous ROTC training or active military service may apply for advanced standing in the program.

Basic course students are required to attend two hours of instruction per week during the Freshman year and three hours of instruction per week in the Sophomore year. Attendance at three to four hours of instruction per week is required during the advanced course. Advanced course students also attend a six-weeks summer camp at Fort Lewis, Washington, following the Junior or Senior year. Retainer pay of \$50 per month is provided during the advanced course in addition to summer camp pay and allowances.

Students enrolled in the four-year program will be afforded the opportunity to compete for scholarships providing for payment of all tuition, laboratory fees, textbooks and monthly retainer pay of \$50 for a period of up to four years.

The two-year program differs from the four-year program in that attendance at a six-weeks basic summer camp is substituted for completion of the basic course as a prerequisite for entry into the advanced course. Scholarships will not be available to students enrolled in the two-year program.

In addition, a flight training program is offered in the Senior year for students who may be interested in flying, as either Reserve or Regular Army officers.

Selective Service deferments are available to ROTC students after the first college semester.

Students enrolled in the program prior to September, 1969, will receive credit as listed below; for students entering the program in September, 1969, or thereafter, there will be no credit for military science courses.

1a-b. **MILITARY SCIENCE I** (Basic course, four-year program only.) *Staff*
Class, T or Th 8, 9, 10; All sections, M 1:05-1:55. NC.

Introduction to military organization; purpose of ROTC; individual weapons; and the United States Army and the national security. Special emphasis is given to the importance of the citizen-soldier to the American way of life.

52a-b. **MILITARY SCIENCE II** (Basic course, four-year program only.) *Staff*
Class, TTh 8, 9, 10; All sections, M 1:05-1:55.

The year's work is credited as a half-course.

American military history; map reading and introduction to basic tactics. The foundation is laid for advanced training.

MILITARY SCIENCE I & II COMBINED BASIC SUMMER CAMP

(Two-year program only.)

Camp Staff

Conducted at Fort Knox, Kentucky. Six weeks between Sophomore and Junior years. This training constitutes one course.

Leadership theory; weapons training; map and aerial photo reading; inspections; demonstrations; hand-to-hand combat training; combat intelligence and counter-insurgency; military customs and courtesy. A practical introduction to the basic military skills as a foundation for advanced training.

103a-b. MILITARY SCIENCE III (Advanced course.)

Staff

Class, MWF 8, 9; Both sections, M 1:05-1:55.

The year's work constitutes one course.

Leadership theory; methods of instruction and military teaching principles; function and mission of the arms and services of the United States Army; continuation of basic tactics; and the principles of communications.

MILITARY SCIENCE ADVANCED SUMMER CAMP

Camp Staff

(Advanced course.)

Conducted at Fort Lewis, Washington. Six weeks between Junior and Senior years.

Practical application of all phases of military life; including qualification firing; tactical exercises; physical conditioning; military customs and courtesy; and leadership training.

154a-b. MILITARY SCIENCE IV (Advanced course.)

Staff

Class MWF 8, 9; Both sections, M 1:05-1:55.

The year's work constitutes one course.

Military staff operations; logistics; Army administration; military law; the role of the United States in world affairs; service orientation designed to prepare the student for entry on active service as a commissioned officer in either the United States Army Reserve or the Regular Army.

Modern European Languages and Literature

CONCENTRATIONS:

FRENCH: Six courses numbered over 101. Required: French 101, 120a,b.

GERMAN: Six courses numbered above 100 and two additional courses in German or in a related field. Required: German 101, 112.

ROMANCE

LANGUAGES: Eight courses numbered over 101. Required: French 101, Spanish 101, French 120a,b, Spanish 120a,b.

SPANISH: Six courses numbered over 101. Required: Spanish 101, 120a,b.

LANGUAGE LABORATORY: Elementary and intermediate language classes are expected to spend at least 45 minutes in the language laboratory each week. Instructions concerning registration and scheduling will be given during the first week of classes each semester. Laboratory fee: \$5.00 per semester.

PLACEMENT: All students who have had training in a modern European language and who consider further work in the same language are required to consult a member of the department to determine what course they should enter.

OLDENBORG CENTER: Men and women students may reside in Oldenburg Center for Modern Languages and International Relations and enjoy the benefits of a native speaking environment. There are currently wings devoted to French, German, Russian, Chinese, Italian, and Spanish. Admission is by selection. Consult the Director for further information.

PREPARATION FOR GRADUATE STUDY: Students who plan to continue the study of a foreign language in graduate school are reminded that Latin and a second modern foreign language are usually required.

LIMITATION ON ENROLLMENT: So far as is practicable the enrollment in courses in Modern European Languages may be limited as follows:

Courses numbered 1 and 51: 18 students in each section.

Courses numbered 60 and 101: 12 students in each section.

COURSES IN TRANSLATION

181. MASTERPIECES OF EUROPEAN LITERATURE IN TRANSLATION

Mr. Leggewie

First Semester. TTh 10. Open to Juniors or Seniors only, except by permission of instructor.

Masterpieces of the French novel from Romanticism to Existentialism. Among the works studied: Hugo, *The Hunchback of Notre Dame*; Stendhal, *The Red and the Black*; Flaubert, *Madame Bovary*; Balzac, *Père Goriot*; Gide, *The Counterfeiters*; Malraux, *Man's Fate*; Sartre, *Nausea*; Camus, *The Plague*.

FRENCH

1a-b. ELEMENTARY FRENCH

Staff

MTWTF 9, 10 (two sections), 1:15. Laboratory arranged. Qualified students may enter 1b. Fee \$5.00 per semester.

Oral work in the basic structure of the language. Reading and writing through intensive practice. Conducted in French.

50. INTERMEDIATE FRENCH

Mr. Leggewie

Each Semester. MWF 9. Prerequisite: French 1b or the equivalent.

Emphasis on extensive reading of literary, cultural and scientific texts. Short grammar review.

51. INTERMEDIATE FRENCH

Staff

First Semester. MWF 9, 10, 11 (two sections). Prerequisite: French 1b or the equivalent. Laboratory arranged. Fee \$5.00 per semester.

Intensive study of the language through grammar review, reading, writing and speaking. Primarily for students who intend to continue or are planning a Semester Abroad program. Conducted in French.

60. ADVANCED FRENCH

Staff

First Semester: MWF 10, 11. Second Semester: MWF 9, 10, 11. Prerequisite: French 51 or permission of the instructor.

For students who plan to take upper division courses. Emphasis on correct idiomatic writing. Weekly essays, based on expository and literary reading. Oral work and grammar review.

UPPER DIVISION COURSES

French 60 or the equivalent is required for admission to all upper division courses.

101. INTRODUCTION TO FRENCH LITERATURE

Miss Johnson and Miss Jacobson

Each Semester. MWF 11. Prerequisite: Permission of instructor.

Analysis of styles and genres. Introduction to methods of criticism; practice in interpretation of literature. Required of majors.

120a,b. SURVEY OF FRENCH LITERATURE AND CIVILIZATION

MWF 11.

Mr. Leggewie

A general outline course in the history of French literature from its origin to modern times. First semester: to the end of the eighteenth century; second semester: nineteenth and twentieth centuries.

125. THEATER OF THE NINETEENTH CENTURY

Mr. Pronko

First Semester. MWF 1:15.

From Victor Hugo to the Théâtre Libre de Antoine.

126. THE NOVEL OF THE NINETEENTH CENTURY

Mr. Leggewie

(Omitted in 1969-70.)

From Chateaubriand and Hugo to Paul Bourget and Anatole France.

127. MODERN FRENCH THEATER

Mr. Pronko

Second Semester. MWF 1:15.

Study of representative playwrights of today with special emphasis on Claudel, Giraudoux, Sartre, Camus, Ionesco, Beckett.

130. THE CONTEMPORARY NOVEL

Mr. Leggewie

(Omitted in 1969-70.)

Study of Gide, Mauriac, Proust, Sartre, Camus.

150. CONTEMPORARY FRENCH POETRY

Miss Jacobson

Second Semester. MWF 10.

Study of outstanding poets from Baudelaire to the present.

153. LITERATURE OF THE SEVENTEENTH CENTURY

Miss Johnson

(Omitted in 1969-70.)

A survey of seventeenth century French literature from Saint Amant to Bossuet, with special emphasis on Corneille, Racine, Molière.

160. MEDIEVAL FRENCH LITERATURE

Miss Johnson

(Omitted in 1969-70.)

A survey of medieval French literature from Chanson de Roland to Villon. Preparation for reading Old French.

165. EIGHTEENTH CENTURY FRENCH LITERATURE

Mrs. Crosby

(Omitted in 1969-70.)

The literature of the French Enlightenment with particular emphasis on the novel from Prévost to Laclos.

170. RENAISSANCE

Mrs. Crosby

Second Semester. M 3.

Literature and ideas of the sixteenth century with particular emphasis on Rabelais and Montaigne.

190. SPECIAL TOPICS *Miss Johnson*
 Second Semester. T 3. Prerequisite: Permission of instructor.
 A theme in medieval French literature.
192. READING AND RESEARCH IN FRENCH *Staff*
 Each Semester. Arranged. Permission of the instructor required. Open to concentrators capable of independent study. Course or half-course. May be repeated for credit.

AVAILABLE AT SCRIPPS COLLEGE

- I-115. FRENCH CULTURE AND CIVILIZATION. Second Semester. *Mr. Durand*
- I-121. SEVENTEENTH CENTURY FRENCH CLASSICISM. First Semester. *Mr. Fine*
- I-122. THE AGE OF ENLIGHTENMENT. Second Semester. *Mr. Fine*
- I-133. ART OF THE NOVEL IN TWENTIETH CENTURY FRANCE. *Mrs. Dobbs*
 Second Semester.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

120. NINETEENTH CENTURY NOVEL. First Semester. *Mr. Rand*
122. MOLIERE ET SON TEMPS. Second Semester. *Mrs. Smith*

GERMAN

- 1a-b. ELEMENTARY GERMAN *Staff*
 MTWF 8, 9, 10; MWThF 11. Qualified students may enter 1b. Laboratory arranged. Fee \$5.00 per semester.
 Oral work in the basic structure of the language. Reading and writing through intensive practice. Conducted in German.
50. INTERMEDIATE GERMAN *Mr. Wilson*
 First Semester. MWF 11. Prerequisite: German 1b or the equivalent.
 Emphasis on extensive reading of literary, cultural and scientific texts. Thorough grammar review.
51. INTERMEDIATE GERMAN *Staff*
 First Semester. MWF 8, 10 (two sections), 11. Prerequisite: German 1b or the equivalent. Laboratory arranged. Fee \$5.00 per semester.
 Intensive study of the language through grammar review, reading, writing and speaking. Students who intend to continue or are planning a Semester Abroad program should take this course. Conducted in German.
60. ADVANCED GERMAN *Staff*
 First Semester: MWF 11. Second Semester: MWF 10, 11. Prerequisite: German 51 or permission of instructor.
 For students who plan to take upper division courses. Emphasis on correct, idiomatic writing. Weekly essays, based on expository and literary readings. Oral work and grammar review.

UPPER DIVISION COURSES

German 60 or the equivalent is required for admission to all upper division courses except German 112.

101. INTRODUCTION TO GERMAN LITERATURE *Mr. Garlick*

Second Semester. MWF 11. Prerequisite: Permission of instructor.

Analysis of styles and genres. Introduction to methods of criticism; practice in interpretation of literature. Required of majors.

112. GERMAN CIVILIZATION AND CULTURE *Mr. Sheirich*

Second Semester. MW 1:15-2:30. Prerequisite: German 51 or equivalent.

Development of German civilization and institutions from early times to the present. Lectures in English; readings in English and German. Required of majors.

123. GERMAN LITERATURE FROM 800 TO 1750 *Mr. Sheirich*

First Semester. MW 1:15-2:30.

Special emphasis on the lyric and epic of the High Middle Ages, and selected readings in Reformation and Baroque literature.

130a,b. GERMAN LITERATURE OF THE EIGHTEENTH CENTURY
(Omitted in 1969-70.) *Mr. Sheirich*

Readings in the critical and imaginative literature of the Enlightenment, Storm and Stress, and Classical period. Emphasis on Lessing, Schiller, and Goethe.

140a,b. GERMAN LITERATURE OF THE NINETEENTH CENTURY
(Omitted in 1969-70.) *Mrs. Everett*

Reading and interpretation of plays, poetry, and narrative prose which reflect the development of German literature from Romanticism to the emergence of Naturalism.

150a,b. MODERN GERMAN LITERATURE *Mr. Brueckner*
MWF 9.

A course devoted to the study of modern and contemporary German drama, poetry, and prose. Selections include works of Andersch, Brecht, Frisch, George, Hauptmann, Kafka, Mann, and Rilke.

190. SPECIAL TOPICS *Staff*
(Omitted in 1969-70.)

192. READING AND RESEARCH IN GERMAN *Staff*
Each semester. Arranged. Permission of instructor required. Open to concentrators capable of independent study. Course or half-course. May be repeated for credit.

AVAILABLE AT SCRIPPS COLLEGE

I-164. CLASSICAL GERMAN DRAMA. Second Semester. *Mrs. Potter*

ITALIAN

AVAILABLE AT SCRIPPS COLLEGE

I-1. INTRODUCTORY ITALIAN. First Semester. *Mrs. Ewing*

I-2. INTRODUCTORY ITALIAN. Second Semester. *Mrs. Ewing*

I-53. INTERMEDIATE ITALIAN. First Semester. *Mrs. Ewing*

- I-54. ADVANCED ITALIAN. Second Semester. *Mrs. Ewing*
 I-132. CONTEMPORARY ITALIAN LITERATURE. First Semester. *Mrs. Ewing*
 I-163. RENAISSANCE ITALIAN LITERATURE. Second Semester. *Mrs. Ewing*

RUSSIAN

- 1a-b. ELEMENTARY RUSSIAN *Mr. and Mrs. Ulitin*
 MTWF 9, 10. Qualified students may enter 1b. Laboratory arranged. Fee \$5.00 per semester.
 Oral work in the basic structure of the language. Reading and writing through intensive practice.
50. INTERMEDIATE RUSSIAN *Mr. Ulitin*
 First Semester. MWF 1:15. Prerequisite: Russian 1b or the equivalent.
 Emphasis on extensive reading of literary, cultural and scientific texts. Short grammar review.
51. INTERMEDIATE RUSSIAN *Mrs. Ulitin*
 First Semester. MWF 11. Prerequisite: Russian 1b or the equivalent. Laboratory arranged. Fee \$5.00 per semester.
 Intensive study of the language through grammar review, reading, writing and speaking. Primarily for students who intend to continue or are planning a Semester Abroad program. Conducted in Russian.
60. ADVANCED RUSSIAN *Mrs. Ulitin*
 Second Semester. MWF 11.
 Emphasis on correct, idiomatic writing. Weekly essays, based on expository and literary writings. Oral work and grammar review.
- 101a,b. INTRODUCTION TO RUSSIAN LITERATURE *Mr. Ulitin*
 MWF 2:15. Prerequisite: Permission of instructor.
 A survey course in the history of Russian literature from its origins to modern times.
192. READING AND RESEARCH IN RUSSIAN *Mr. Ulitin*
 Each Semester. Arranged. Permission of instructor required. Course or half-course. May be repeated for credit.

SPANISH

- 1a-b. ELEMENTARY SPANISH *Mr. Young*
 MTWF 10. Qualified students may enter 1b. Laboratory arranged. Fee \$5.00 per semester.
 Oral work in the basic structure of the language. Reading and writing through intensive practice. Conducted in Spanish.
50. INTERMEDIATE SPANISH *Staff*
 First Semester. Prerequisite: Spanish 1b or the equivalent. (Omitted in 1969-70.)
 Emphasis on extensive reading of literary, cultural and scientific texts. Short grammar review.

51. INTERMEDIATE SPANISH

Mr. Ricapito

First Semester. MWF 9. Prerequisite: Spanish 1b or the equivalent. Laboratory arranged. Fee \$5.00 per semester.

Intensive study of the language through grammar review, reading, writing and speaking. Primarily for students who intend to continue or are planning a Semester Abroad program. Conducted in Spanish.

60. ADVANCED SPANISH

Mr. Ricapito

First Semester: MWF 10. Second Semester: MWF 9. Prerequisite: Spanish 51 or the equivalent.

For students who plan to take upper division courses. Emphasis on correct, idiomatic writing. Weekly essays, based on expository and literary readings. Oral work and grammar review.

UPPER DIVISION COURSES

Spanish 60 or the equivalent is required for admission to all upper division courses.

101. INTRODUCTION TO SPANISH LITERATURE *Mr. Young and Mr. Ricapito*

First Semester: MWF 1:15. Second Semester: MWF 10. Prerequisite: Permission of instructor.

Analysis of styles and genres. Introduction to methods of criticism; practice in interpretation of literature. Required of majors.

120a,b. SURVEY OF SPANISH LITERATURE

Mr. Ricapito

MW 1:15-2:30.

A general outline course in the history of Spanish literature from its origins to modern times.

170. CERVANTES

Mr. Ricapito

Second Semester. (Omitted in 1969-70.)

A study of the life and works of Cervantes with special attention to *Don Quijote* and its relation to European literature.

172. THEATER OF THE GOLDEN AGE

Mr. Ricapito

First Semester. (Omitted in 1969-70.)

Intensive class study of Lope de Vega, Ruiz de Alarcón, Tirso, and Calderón.

180a,b. THE GOLDEN AGE

Mr. Ricapito

(Omitted in 1969-70.)

The Renaissance and the Baroque in Spanish literature. First semester: development of literary forms, chivalry, humanism, the picaresque, and the mystics; second semester: balladry and the theater.

185a,b. CONTEMPORARY SPANISH LITERATURE

Mr. Young

W 7-10.

A study of significant Spanish writers from 1898 to the present. Main figures: Unamuno, A. Machado, Jiménez, Ortega, Lorca.

191. SPECIAL TOPICS

Mr. Young

Prerequisite: Permission of the instructor. (Omitted in 1969-70.)

192. READING AND RESEARCH IN SPANISH

Staff

Each Semester. Arranged. Permission of instructor is required. Open to concentrators capable of independent study. Course or half-course. May be repeated for credit.

FOR ADDITIONAL COURSES SEE MEXICAN-AMERICAN STUDIES.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

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|------|--|---------------------|
| 116. | NINETEENTH CENTURY SPANISH LITERATURE. First Semester. | <i>Mr. Corey</i> |
| 159. | LATIN AMERICAN NOVEL SINCE 1930. Second Semester. | <i>Mr. Koldewyn</i> |

AVAILABLE AT PITZER COLLEGE

- | | | |
|------|--|-------------------|
| 113. | POST-WAR SPANISH LITERATURE. First Semester. | <i>Mrs. Reese</i> |
| 171. | THEATER AND SOCIETY IN CONTEMPORARY LATIN AMERICA.
Second Semester. | <i>Mrs. Reese</i> |

AVAILABLE AT SCRIPPS COLLEGE

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|--------|--|---------------------------------------|
| I-150. | LATIN AMERICAN SHORT STORY. Second Semester. | <i>Mrs. Lamb</i> |
| I-155. | SPANISH MASTERPIECES OF THE MIDDLE AGES. First Semester. | <i>Mr. Read</i> |
| I-156. | LATIN AMERICAN NOVEL TO 1930. First Semester. | <i>Mrs. Lamb</i> |
| I-172. | THE SPANISH SOUTHWEST IN AMERICAN LITERATURE.
First Semester. | <i>Mrs. Lamb</i> |
| I-173. | LITERATURE OF A SELECTED LATIN AMERICAN COUNTRY.
First Semester: Mexico (Pitzer)
Second Semester: Brazil (Scripps) | <i>Miss Gurza</i>
<i>Mrs. Lamb</i> |

Music

COURSES OPEN TO NON-CONCENTRATORS: Courses designed primarily for non-concentrators include Introduction to Music (53, 54) and Materials of Music (4, 5). Ability to read music is required for the sequence of courses in the History of Musical Style (120, 121, 122, 123) and for Elementary Theory (1). Qualified students may be admitted to any course in music. Applied Music (vocal and instrumental) and the performing organizations (College Choir, orchestra, band, chamber music, and the Glee Clubs) are open to all students. Those undecided about concentration in music are advised to take Elementary Theory (1a,b) immediately, in order to clarify their choice of concentration and to avoid crowding their Senior year programs.

CONCENTRATION: The concentration program is designed both for the pre-professional musician preparing for a career within the field, and for the student who may have other vocational plans but wishes to major in music while an undergraduate.

REQUIREMENTS FOR CONCENTRATION: The following courses are required of all students concentrating in music: Elementary Theory (1a,b), Intermediate Theory (55a,b), Advanced Theory (107a,b), and the two-year sequence in the History of Musical Style (120, 121, 122, 123).

All concentrators must take a Basic Musicianship Examination, testing skills in sight reading, ear training, and keyboard harmony. Performance on the related parts of the examination is counted in grading the theory courses (1, 55, 107); final standing on the entire examination is counted in grading the comprehensive examination for graduating Seniors. Detailed information concerning the Basic Musicianship Examination may be obtained at the Music Department office.

All concentrators are expected to take part in the performing organizations, and to attend the lectures and concerts presented by the department.

In addition to the required courses listed above, one of the following areas of concentration is required:

APPLIED MUSIC: Two lessons per week in upper division Applied Music during the Junior and Senior years, frequent performance in Student Recitals, and performance of a Senior Recital.

COMPOSITION: Orchestration (113) and Free Composition (158).

GENERAL MUSIC: Credit study in Applied Music and continuing participation in performing organizations during the Junior and Senior years.

SECONDARY SCHOOL MUSIC: Orchestration (113), Conducting (117, 118), and Rudiments in the Playing of Orchestra and Band Instruments (119), with as much work as possible in piano, voice, and the performing organizations. In conjunction with the Claremont Graduate School, Pomona College offers a five-year program in which music majors who intend to teach in public schools may meet the requirements for the appropriate teaching credential. Such students will normally elect Secondary School Music as their area of undergraduate concentration. They should consult the Office of Credentials and Placement in the Claremont Graduate School, McManus Hall, about the State requirements as early as possible.

All concentrators are strongly urged to acquire a reading knowledge of at least one foreign language.

TRANSFER STUDENTS: Students transferring from other institutions as Juniors should take Elementary Theory (Music 1) or its equivalent before coming to Pomona, and should possess basic piano ability. They will be given a theory placement test to determine their proper course assignment and their transfer credit from previous theory study.

THEORY, HISTORY, AND LITERATURE

Music Theory courses for concentrators (1, 55, 107) are based upon analysis of musical works, practice in choral and instrumental textures, and writing in small forms.

1a,b. ELEMENTARY THEORY

Mr. Kohn and Mr. Loucks

MWF 10. Laboratory sections for ear training, sight singing, and keyboard harmony twice weekly: M 11, T 10, W 11, Th 10, or F 11. Ability to read music and basic familiarity with piano keyboard indispensable. Performance on elementary part of Basic Musicianship Examination included in course grade.

Diatonic harmony and two-part counterpoint.

4. MATERIALS OF MUSIC I

Miss Smith

First Semester. TTh 1:15-2:45.

Basic theory for the layman: melody, harmony, counterpoint, rhythm, form. Study of significant styles. Ability to read music important.

5. MATERIALS OF MUSIC II

Miss Smith

Second Semester. TTh 1:15-2:45. Prerequisite: Music 4 or Music 1a.

Continuation of Music 4: further study of materials through analytical listening and writing in short forms.

53. INTRODUCTION TO MUSIC I

Mr. Loucks

First Semester. Lectures, MW 2:15; section meetings, M 3:15, W 3:15, or F 2:15. No previous musical experience required.

Technique of intelligent listening, principles of musical structure, and historical survey of major composers and styles through the study of representative works of Beethoven and his predecessors.

54. INTRODUCTION TO MUSIC II

Mr. Kohn

Second Semester. Lectures, MW 2:15; section meetings, M 3:15, W 3:15, or F 2:15. No prerequisite.

Continuation of Music 53, with the study based upon the works of composers since Beethoven.

55a,b. INTERMEDIATE THEORY

Mrs. Briggs and Mr. Ritter

MWF 11. Laboratory sections for ear training, sight reading, and keyboard harmony once weekly: M 3:15, T 1:15, W 3:15, or Th 1:15. Performance on intermediate part of Basic Musicianship Examination included in course grade. Prerequisite: Music 1.

Chromatic harmony and three-part counterpoint.

107a,b. ADVANCED THEORY

Mr. Loucks and Mr. Kohn

MWF 1:15. Prerequisite: Music 55.

Contrapuntal devices and forms; twentieth century techniques. Performance on advanced part of Basic Musicianship Examination included in course grade.

113a,b. ORCHESTRATION AND INSTRUMENTATION

Mr. Blanchard

Arranged. Half-course each semester. Prerequisite: Music 55.

Scoring for orchestra, band, and vocal groups. Opportunity for public performance of outstanding work.

117. CHORAL CONDUCTING

Mr. Russell

First Semester. F 2:15-4:05. Prerequisites: Choral experience, basic piano and sight singing ability, knowledge of elementary theory, and permission of the instructor. Half-course. (Offered in alternate years; offered in 1969-70.)

Technique of conducting, repertoire, score analysis, rehearsal planning, chorus building.

118. INSTRUMENTAL CONDUCTING

Mr. Bernstein

Second Semester. F 1:15-3:05. Permission of instructor required. Half-course. (Offered in alternate years; offered in 1969-70.)

Baton technique, beat formation in all rhythms, score reading, rehearsal problems, repertoire.

119a,b. RUDIMENTS IN THE PLAYING OF ORCHESTRAL AND BAND INSTRUMENTS

Mr. Blanchard and Mr. Bernstein

Half-course each semester. (Offered in alternate years; not offered in 1969-70.)

First semester: winds; second semester: strings.

The following four courses (120, 121, 122, 123) constitute a two-year sequence in the history of musical style. Study by formal analysis, class performance, and guided listening, of a repertoire selected to exemplify the respective periods stylistically and chronologically, with supplementary read-

ings in the basic works of history and reference. Permission of the instructor required for non-concentrators. Concentrators should normally take the sequence in order, one course per semester.

120. MUSIC OF THE MIDDLE AGES AND THE RENAISSANCE *Mr. Kohn*
First Semester. MWF 9.
121. MUSIC OF THE BAROQUE AND PRE-CLASSICAL PERIODS *Mr. Loucks*
Second Semester. MWF 9.
122. MUSIC OF THE CLASSICAL PERIOD AND THE NINETEENTH CENTURY *Mr. Bernstein*
First Semester. T 1:15-3:05, Th 1:15.
123. MUSIC OF THE TWENTIETH CENTURY *Mr. Russell*
Second Semester. TThS 9.
- 158a,b. FREE COMPOSITION *Mr. Kohn*
Arranged. Permission of instructor required.
- Advanced studies in the elements of contemporary techniques, and original work intended to develop the student's sense of structure and style.

199. INDEPENDENT STUDY *Staff*
Each Semester. Arranged. Course or half-course.
- Self-directed study of advanced topics under faculty guidance. Open to Juniors and Seniors whose written project proposals have been submitted at least one week prior to preregistration and have been approved by the department.

AVAILABLE AT SCRIPPS COLLEGE

- II-176a,b. COLLEGIUM MUSICUM. Half-course. *Mr. Lengefeld*
An organization for the performance of choral and instrumental music from the Baroque, Renaissance, and Medieval periods. Ensembles will normally be small chamber groups performing madrigals, trio sonatas, etc. Open to both singers and instrumentalists.

GRADUATE STUDY IN MUSIC

The Claremont Graduate School offers work leading to the Master of Arts degree with majors in Applied Music, Music History, Composition, and Music Education.

PERFORMING ORGANIZATIONS

Open to all students in the college. Credit is granted for satisfactory participation in each performing organization (the Glee Clubs excepted) on a cumulative basis: four semesters' participation is the equivalent of one half-course. No credit is given for less than four semesters' participation. Credit may be aggregated among the several organizations, but may not be had for more than two organizations in any one semester. Grades are on the pass-fail basis. Participation may be repeated for credit. To obtain credit for participation in the performing organizations students must register for it during the regular pre-registration and/or registration periods.

50A. COLLEGE CHOIR

Mr. Russell

Each Semester. MTWF 12:30-1:05; Th 11:00-12:20. (Women do not meet on T; men do not meet on M.) New members admitted in first semester only. Fee to cover cost of music: \$2.00.

The study of classic and contemporary choral music through rehearsals leading to public performance. Continued membership is contingent upon satisfactory performance in a singing test held in October on music practised during the opening weeks of the year.

50B. ORCHESTRA

Mr. Bernstein

TTh 4:15-5:45. Permission of instructor required. Two periods of attendance weekly. Additional section rehearsals at option of director.

A study of major works of orchestral repertoire and application of the principles of orchestral routine through public performance.

50C. BAND

Mr. Russell

First Semester: Football Band. MW 4:15, and the Varsity games. Second Semester: Concert Band, subject to available instrumentation. T 6:30-8:30 p.m., with sectional rehearsals arranged as required.

Practice and performance of original works for winds and percussion.

50D. CHAMBER MUSIC

Mr. Bernstein

Arranged. Permission of instructor required.

Practice and performance of chamber music for various combinations.

MEN'S AND WOMEN'S GLEE CLUBS

Mr. Russell

Normal schedule: two practices weekly. No credit. Concurrent membership in College Choir essential. New members admitted by tryout only, at the opening of the college year.

The Glee Clubs, student-managed, offer opportunity for performance in a small extra-curricular ensemble, both on and off campus.

APPLIED MUSIC

Open to all students in the college. Applied Music may be taken either with credit or without.

GENERAL: The sign-up procedure for lessons in Applied Music begins at the Music Department Office. All students must pass qualifying examinations to establish eligibility for credit, since no credit is given for elementary study, and no credit is given for work in Applied Music taken elsewhere. Credit is granted for Applied Music study on a cumulative basis. One lesson per week carried through four semesters, or two lessons per week carried through two semesters, is the equivalent of one half-course. Credit is given only upon completion of each such half-course. Private lessons are normally one half-hour in length.

LIMITATIONS: Students become eligible for one half-course of Lower Division credit in Applied Music by passing the Lower Division qualifying examination. For further credit they must take a full year of Elementary Theory (Music 1) or Materials of Music (Music 4, 5), either preceding or accompanying the additional work in Applied Music. Intermediate Theory (Music 55a,b) must precede or accompany all work for Upper Division credit. Limit of credit in Applied Music toward the Bachelor of Arts degree: 2 courses.

QUALIFYING EXAMINATIONS: Students working for credit in Applied Music are enrolled in two categories: Lower Division (Music 11), and Upper Division (Music 111). The passing of a qualifying examination is required

for entrance into either category. These examinations are normally given near the beginning of each semester, and near the close of the college year. Arrangements for the examination should be made through the Applied Music instructor. Printed information concerning the qualifying examinations may be obtained at the Music Department office.

Fees for instruction and for the use of practice rooms are listed on page 55.

While instruction in Applied Music is organized on a semester basis, and credit is granted only for full semesters of study, students may begin non-credit lessons at any time, at pro-rated tuition. Registration for credit study should be made during the regular pre-registration and/or registration periods; a late registration fee will be charged after the first ten days of any semester to defray the clerical expenses involved in making the change.

VOICE, *Mrs. Briggs, Mr. Peterson, and Mrs. Cuda.*
 ORGAN, *Mr. Blanchard.*
 PIANO, *Mr. Hewitt, Mr. Ritter, and Mr. Reifsnnyder.*
 HARPSICORD, *Miss Hamilton.*
 VIOLIN AND VIOLA, *Mr. Stockhammer.*
 VIOLONCELLO, *Mr. Cole.*
 STRING BASS, *Mr. Gregory.*
 HARP, *Miss Call.*
 FLUTE, *Mr. Moritz.*
 OBOE, *Mrs. Geller-Smith.*
 CLARINET, *Mr. Bloch.*
 BASSOON, *Mr. Nowlin.*
 FRENCH HORN, *Mr. Pyle.*
 TRUMPET, *Mr. Guarneri.*
 TUBA, *Mr. Rice.*
 GUITAR, *Mr. Barroso, Mr. Barrett.*
 TIMPANI AND PERCUSSION, *Mr. Rees.*

Philosophy

The Claremont Colleges offer a coordinated program in Philosophy, in which Pomona participates.

CONCENTRATION: Eight courses, not more than two from the lower division. A program is to be designed by the student and submitted to the department for approval. As many as three courses from other fields may be substituted for philosophy courses if warranted by the student's program.

Those intending to do graduate work in Philosophy should acquire at least a reading knowledge of French and German, and competence both in symbolic logic and some aspects of the history of philosophy.

The introductory courses are designed to acquaint the student with the principles of philosophical criticism and with important documents representative of Western thought.

10. FRESHMAN SEMINARS (Limited to 15 Freshmen in each. Graded pass/fail.)

10A. MODERN VIEWS OF MAN

Mr. Jones

First Semester. F 1:15-3:05.

A study of some conflicting views of man, as represented in the writings of some contemporary philosophers, novelists, poets, and dramatists.

10B. SCIENCE AND SOCIETY

Mr. Beckner

First Semester. W 1:15-3:05.

An examination of scientific inquiry as a cultural process, and the relations of science to other endeavors, e.g., religion, philosophy, technology, and politics.

10C. FREEDOM AND LAW

Mr. Louch

First Semester. Th 1:15-3:05.

A study of contemporary conflicts between personal beliefs and social standards will be used to explore the meaning of rights, freedom, authority and responsibility, with special attention to current revolutionary theory.

10D. MINDS, BRAINS, AND MACHINES

Mr. Davis

First Semester. M 1:15-3:05.

An examination of the philosophical implications of two questions: (1) How is the "mind" related to the "brain"? and (2) Can machines "think" and "feel"?

10E. THE CONCEPT OF MEANING

Mr. Erickson

Second Semester. T 1:15-3:05.

A study of various doctrines of meaning as they relate to problems of personal identity and self-knowledge.

10F. THE RELEVANCE OF THE GREEK EXPERIENCE

Mr. Louch

Second Semester. W 1:15-3:05.

Writings of poets, dramatists, orators, Thucydides' *History* and selected dialogues of Plato will be used to show the changes in social thought and political values within Athenian democracy under the impact of war and class struggle.

10G. EDUCATION, REFORM AND REVOLUTION

Mr. King

Second Semester. F 1:15-3:05.

A study of the goals of education and its proper role in periods of social change and crisis. Particular emphasis on the liberal arts college.

10H. THE SCIENCE OF MAN

Mr. McGilvray

Second Semester. Th 1:15-3:05.

A philosophical discussion of the problems met in describing and explaining human behavior.

10I. PROBLEMS OF KNOWING

Mrs. Katz

Second Semester. M 1:15-3:05.

A study of the nature and extent of human knowledge, its validation, and its relation to perception.

50. PROBLEMS OF PHILOSOPHY

Staff

(Omitted in 1969-70. Offered in 1970-71.)

An introduction to the methods and problems of philosophy, through a consideration of some major original works.

51. ELEMENTS OF PHILOSOPHY

Mr. Sontag

First Semester. MWF 9.

A discussion of the function and the usefulness of philosophy through an analysis of the elements from which any theory is made. Illustrative readings from classical and contemporary sources.

History of Philosophy Series. Five semester courses designed to present the history of Western philosophy through primary source readings, lectures, and discussions. Additional courses are available on individual philosophies and schools.

110. ANCIENT PHILOSOPHY

Mr. Sontag

First Semester. MWF 11.

A study of the origins of philosophy through a reading of the pre-Socratics, Plato, Aristotle, the Epicureans, Stoics and neo-Platonists.

111. MEDIEVAL PHILOSOPHY

Fr. Winance

Second Semester. T 1:15-3:05.

The medieval development of the Western philosophical tradition including study of the philosophies of Augustine, Scotus Eriugena, Thomas Aquinas, Arabian and Jewish philosophers.

112. MODERN PHILOSOPHY

Mr. Beckner

Second Semester. MWF 11.

An examination of two major movements in the seventeenth and eighteenth centuries: a) Continental Rationalism, including Descartes, Spinoza, and Leibnitz; and b) British Empiricism, including Locke and Hume.

113. NINETEENTH CENTURY PHILOSOPHY

Mr. Erickson

First Semester. MWF 9.

A study of the philosophic thought of the nineteenth century, with emphasis upon the rise of German idealism and its decline. The writings of Kant, Hegel, Marx, and Nietzsche will be given major consideration.

114. CONTEMPORARY ANALYTIC PHILOSOPHY

Mr. King

Second Semester. Th 2:15-4:05.

A study of some major trends in twentieth century analytic philosophy, including logical positivism, linguistic analysis, and the background from which these developed.

Systematic Areas. A series of courses designed to cover the various special areas in philosophy on an advanced level.

120. PHENOMENOLOGY

Mr. Beckner and Mr. Erickson

First Semester. Th 1:15-3:05.

An analysis of the phenomenological method and its application to the domains of ethics, art, religion, psychology, and psychiatry.

124. EXISTENTIALISM

Mr. McGilvray and Mr. Sontag

Each Semester. W 1:15-3:05.

First Semester: Reading in basic existentialist thinkers. Second Semester: A philosophical analysis of existentialism and its impact on contemporary thought, developed through a reading of Kierkegaard, Sartre, Jaspers, Marcel, Ortega y Gasset, and Camus.

137. ROMANTICISM

Mr. Jones and Mr. Mulhauser

First Semester. Two sections: M 2:15-4:05; W 2:15-4:05. Enrollment limited to 18 students in each section.

A study of Romanticism, as manifested in philosophy and the arts.

150. PHILOSOPHY OF SCIENCE

Mr. Beckner

First Semester. MWF 9. (Offered in alternate years; offered in 1969-70.)

An analysis of the nature of scientific method, theory, and innovation through an examination of selected topics in the history of science.

152. PHILOSOPHY OF HISTORY Mr. King
 Second Semester. (Omitted in 1969-70.)
 Theories concerning the interpretation, the goal, and the significance of history, including reading from Augustine, Hegel, Marx, Collingwood and Berdyaev.
154. PHILOSOPHY AND POETRY Mr. Jones
 Second Semester. (Offered in alternate years; not offered in 1969-70.)
 A study of four philosophical poets: Lucretius, Dante, Goethe, and T. S. Eliot.
158. PHILOSOPHY AND THE WORLD OF ART Mr. Erickson and Mr. Frazer
 Second Semester. (Omitted in 1969-70.)
 A philosophical analysis of the problems of the artist, with emphasis on the contemporary period.
160. THEORY OF KNOWLEDGE Mr. McGilvray
 Second Semester. T 1:15-3:05.
 A critical examination of some problems in the theory of knowledge.
162. PHILOSOPHY OF RELIGION Mr. Sontag
 Second Semester. F 1:15-3:05.
 An investigation into the origins of atheism and its connection with the problem of evil and the modern demand for freedom, together with the construction of a contemporary concept of God made on this basis.
164. ETHICS Mr. King
 Second Semester. M 1:15-3:05.
 A critical study of selected moral theories, with primary emphasis on the relation of these theories to the possibility of justifying moral judgments.
166. POLITICAL PHILOSOPHY Mr. King
 First Semester. T 1:15-3:05.
 A study of the moral position of the citizen in the modern state. Emphasis on the grounds of political obligation, the principles of justice, and the place of legal reform, civil disobedience, conscientious refusal, and revolution.
167. FREUD, MARX AND CONTEMPORARY THOUGHT Mr. Erickson and Mr. Frazer
 Second Semester. MW 9.
 The influence of Freud and Marx on contemporary literature and philosophy.
168. PHILOSOPHICAL PSYCHOLOGY Mr. Sontag and Mr. McGilvray
 First Semester. F 1:15-3:05.
 A contrast between one classical and two modern psychological theories, developed through a reading of Plato, Freud and Jung (Mr. Sontag). A philosophical investigation of the problem of minds vs. machines (Mr. McGilvray).
176. PHILOSOPHY AND THE SOCIAL SCIENCES Mr. Jones
 First Semester. (Offered in alternate years; not offered in 1969-70.)
 An examination of the impact of contemporary claims to offer a scientific view of man and society on our conception of human nature and freedom, and social and political institutions.

Logic. A series of courses designed to present the field of logic from an elementary to an advanced level. Philosophy 53, 135, and H.M.C. 139 are beginning courses; 135 or H.M.C. 139 are recommended as preparation for advanced courses.

53. INTRODUCTION TO LOGIC

Mr. Beckner

Second Semester. MWF 10.

An examination of principles applied in the assessment of arguments in the sciences and everyday life. Symbolic and traditional logic, and the logical structure of language.

135. SYMBOLIC LOGIC

Mr. Vickers

First Semester. TThS 10.

Elementary symbolic logic, with special emphasis on the concept of reference, a crucial notion for semantical and epistemological theory.

SYMBOLIC LOGIC. See Harvey Mudd College Philosophy 139. First Semester.

SYMBOLIC LOGIC AND METAMATHEMATICS. See Harvey Mudd College Philosophy 140. Second Semester.

The following courses are designed for concentrators and for students with previous work in philosophy.

190. RESEARCH PROJECTS

Staff

Arranged. Course or half-course. With permission of instructor, 190 may be taken as a summer reading course.

Independent reading and study on a topic of the student's choice, normally culminating in a research paper.

194. SPECIAL TOPICS: NIETZSCHE AND THE LATER WITTGENSTEIN

First Semester. MWF 10.

Mr. Jones and Mr. Erickson

Consideration of such notions as creativity, sublimation, power, forms of life, and language; and their inter-connections.

199. TUTORIAL

Mr. King and Mr. McGilvray

Each Semester. Arranged. Prerequisite: Permission of instructor.

A study of selected topics, determined jointly by the student and his tutor, conducted through a program of frequent student papers to be evaluated in tutorial sessions. Restricted to Juniors and Seniors concentrating in philosophy. Graded pass/fail.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

This list of courses consists mainly of those which do not duplicate offerings at Pomona College. For additional courses open to intercollegiate registration, consult the mimeographed list used for pre-registration or the catalogs of the other Claremont Colleges. If a course duplicates one offered at Pomona College, credit will be allowed either for the Pomona course or the course in the other college, but not for both.

CLAREMONT MEN'S COLLEGE

122. THE RATIONALISTS. First Semester.

Fr. Winance

131. MARXISM. First Semester.

Mr. Kucheman

132G. ORIENTAL PHILOSOPHIES. Second Semester.

Mr. Hutchison

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| 150. | MATHEMATICS AND WESTERN THOUGHT. First Semester. | <i>Mr. Henry</i> |
| 160G. | SARTRE. First Semester. | <i>Mr. Vickers</i> |
| 194. | AMERICAN PHILOSOPHY. Second Semester. | <i>Mr. Roth</i> |

HARVEY MUDD COLLEGE

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| 156. | PHILOSOPHY IN LITERATURE. First Semester. | <i>Mr. Waldman</i> |
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PITZER COLLEGE

- | | | |
|------|---|----------------------|
| 111. | KNOWLEDGE AND PERCEPTION. First Semester. | <i>Mr. Bogen</i> |
| 112. | PHILOSOPHY OF LAW. Second Semester. | <i>Mr. Spitzberg</i> |
| 120. | TOPICS IN ANCIENT PHILOSOPHY. First Semester. | <i>Mr. Bogen</i> |

SCRIPPS COLLEGE

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|---------|--|--------------------|
| IV-161. | PHILOSOPHY OF ART. First Semester. | <i>Mr. Ross</i> |
| IV-164. | NIETZSCHE. Second Semester. | <i>Mr. Neumann</i> |
| IV-172. | PHILOSOPHY AND HISTORY. Second Semester. | <i>Mr. Neumann</i> |

CLAREMONT GRADUATE SCHOOL

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| 203. | ARISTOTLE. Second Semester. | <i>Mr. Bogen</i> |
| 208. | DESCARTES. First Semester. | <i>Fr. Winance</i> |
| 209. | HUME. Second Semester. | <i>Mr. Louch</i> |
| 210. | KANT. Second Semester. | <i>Mr. Erickson</i> |
| 221. | METAPHYSICS. First Semester. | <i>Mr. Scales</i> |
| 271. | ETHICS. First Semester. | <i>Mr. King</i> |
| 275-276. | POLITICAL PHILOSOPHY. Each Semester. | <i>Mr. Schneider, Mr. Ross,
Mr. Waldman</i> |
| 291. | PHILOSOPHY OF LANGUAGE. Second Semester. | <i>Mr. Vickers</i> |
| 325. | METAPHYSICS: BEING AND GOD. Second Semester. | <i>Mr. Sontag</i> |
| 356. | SPACE AND TIME. Second Semester. | <i>Mr. McGilvray</i> |
| 382. | ACTION AND AGENCY. First Semester. | <i>Mr. Louch</i> |

Physical Education

A student is required to take eight Physical Education Activities during his four years at the College. The normal registration is one activity per semester, but a student may, for purposes of accelerating this program or making up past deficiencies, enroll for a maximum of two activities per semester. It is expected that students will enroll for activities in consecutive semesters unless excused by petition obtained from and approved by the Department. Transfer students will be placed according to their previous work and the class into which they transfer. Activity courses are marked on a "pass-fail" basis, and successful completion of all work is required for graduation.

All men students are expected to participate in a Freshman orientation course, to demonstrate the ability to swim, and to exhibit reasonable skill or experience in two individual sports.

All women students are expected to participate in one semester of fundamental activities, to demonstrate the ability to swim, to take part in one individual sport, and to take part in one dance class.

PROFESSIONAL PREPARATION

Although the College does not offer a concentration in Physical Education, certain professional courses are offered for those students interested in the field, provided there is sufficient demand. Election of these courses, followed by a year of graduate work, may qualify the student for the General Credential with a minor in Physical Education. It may also qualify the student for further study in physical therapy, occupational therapy, and recreation. Interested students should confer with a member of the Physical Education Department during the Freshman year.

It is suggested that the required physical education activities be so selected as to give the individual the opportunity for both technical skills and leadership training in a wide range of activities.

THEORY

50. INTRODUCTION TO PHYSICAL EDUCATION

Mr. Platt

First Semester. TTh 8.

A consideration of the nature of the profession and related fields of health and recreation, including a study of professional leaders, publications, and opportunities.

125. ANALYSIS OF PLAY AND COMMUNITY RECREATION *Miss Cawthorne*

Second Semester. (Offered in alternate years; not offered in 1969-70.)

The nature and function of play in meeting the physical, mental, emotional, and social needs of people of all ages in both physical education and leisure time pursuits. An analysis of the organization and administration of community recreation departments, programs, and leadership.

130a,b. HISTORY AND APPRECIATION OF DANCE

Mrs. Hypes

TTh 1:15. Half-course. (Offered in alternate years; offered in 1969-70.)

Study and analysis of the contributions, historical influences, and approaches of the various dancers and choreographers. First semester: a study of primitive, folk, and ballet. Second semester: The Modern Dance from Isadora Duncan to present day.

150. SELECTED TOPICS IN PHYSICAL EDUCATION

Staff

Each Semester. Arranged. Course or half-course. Prerequisite: Permission of Department.

Independent reading and research, with papers and examinations as individual programs, approved by the Department, may require.

154. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION *Mr. Malan*

Second Semester. MWF 8. (Offered in alternate years; offered in 1969-70.)

A study of Physical Education philosophy including the scientific bases and the historical development of the profession, the formulation of guiding principles, and the relation of those principles to current practice.

MEN'S ACTIVITIES

Students engage in an elective program of physical education activities except as certain limits are imposed by medical and physical examinations and tests and by department requirements. Freshmen are required to participate in an Orientation course. The course is designed to introduce Freshmen to the program of physical activity at Pomona College, to provide opportunity for group and self-testing, and to present experiences in fundamental movement including emphasis on general physical development. In addition, students must demonstrate ability to swim and reasonable skill or experience in at least two individual sports.

The following physical education activities are carried on under supervision of the department. Those marked with an asterisk are conducted in cooperation with the Women's Department:

*archery	*golf	skiing	*tumbling
*badminton	*gymnastics	swimming and diving	volleyball
*bowling	judo	tennis	weight training
*dance	*life saving	trampoline	wrestling
*fencing	*riding		

Nominal fees are required each semester of those who select archery, badminton, bowling, fencing, golf, riding, and tennis.

The department conducts a competitive intramural program of sports in season including:

badminton	softball	volleyball
basketball	swimming	wrestling
flag football	track and field	

The college program of intercollegiate athletics is an integral part of the program of physical education. No student is permitted to participate in the more strenuous forms of competition without certification by the College Physician that the individual is physically fit for such participation. Opportunities for intercollegiate competition are provided in the following:

baseball	golf	tennis
basketball	lacrosse	track and field
cross-country	rugby	water polo
fencing	soccer	wrestling
football	swimming	

WOMEN'S ACTIVITIES

Physical examinations are given entering students. Physical activities are allowed or prescribed as the result of these examinations. Participation in a FUNDAMENTAL activity is required one semester of the Freshman year. Students may have freedom of election in other activities but must include one individual sport and one dance class. The passing of a swimming test is required for graduation. This should be completed by the end of the Sophomore year.

FUNDAMENTALS: modern dance, body mechanics, body fitness, co-ed gymnastics, judo.

TEAM SPORTS: basketball, hockey, softball, volleyball.

INDIVIDUAL SPORTS: archery, badminton, golf, ice skating, fencing, riding, riflery, roller skating, bowling, tennis, trampoline, swimming, track and field.

DANCING: modern and folk.

RECREATIONAL GAMES: table tennis, paddle tennis, shuffleboard, etc.

Nominal fees are required each semester of those who select archery, badminton, bowling, fencing, golf, ice skating, riding, and tennis.

In conjunction with the Women's Recreation Association the department sponsors teams in inter-school leagues in tennis, volleyball, basketball, softball, track, badminton, bowling, swimming.

Physics

CONCENTRATION REQUIREMENTS: General Physics; General Chemistry; and at least seven courses of upper division physics including 100, 101, 192, and 195a.

PRE-PROFESSIONAL PROGRAM: A student planning graduate work in physics should include additional courses in physics and mathematics. A reading knowledge of German, French or Russian should be acquired. Modified programs within the physics concentration are offered in preparation for such interdisciplinary fields as astrophysics, biophysics, geophysics, chemical physics, and mathematical physics. Consult the staff for details.

LABORATORY FACILITIES: Modern equipment is available for experimental work in a broad range of fields including electronics, nuclear physics and cyclotron techniques, cryogenics, magneto-optics, magnetic resonance, x-ray diffraction, electron microscopy, interferometry, certain areas of biophysics and astrophysics, and digital and analogue computation. Experimental work is normally carried on in Physics 141 and 192, but additional work may be done under 198 and 199.

1. INTRODUCTION TO PHYSICS

Mr. Ogier

Second Semester. TTh 1:15-2:30. No prerequisites.

An introduction to physics through study of the growth of ideas and the scientific method, accompanied by appropriate lecture demonstrations.

2a,b. GENERAL PHYSICS

Mr. Miller and Mr. Mitescu

MWF 9. Laboratory, Th or F 1:15-4:05. Prerequisite: Trigonometry. Fee \$6.00.

Intended for those in science areas other than physical science and engineering. The laboratory parallels that of Physics 51.

7. GRAPHIC SCIENCE

Mr. Grimm

First Semester. Lecture, Th 3:15 or arranged. Laboratory, any afternoon. NC.

Engineering graphics, graphic analysis, graphical methods of problem solving, curve fitting, slide rule and desk calculator techniques.

51a,b. GENERAL PHYSICS

Mr. Ogier and Mr. Fowler

TThS 9, and one discussion section (arranged). Laboratory, T or W 1:15-4:05. Prerequisite: Completion or concurrent enrollment in Mathematics 30. Fee \$6.00.

For those planning further work in physical science, engineering and other science areas.

61a,b. GENERAL PHYSICS WITH EXPERIMENTAL ANALYSIS

Mr. Ogier and Mr. Fowler

TThS 9 and discussion section (arranged). Laboratory, M 1:15-4:05, or M 2:15-5:05. Prerequisite: Completion or concurrent enrollment in Mathematics 30. Fee \$6.00.

Recommended for those planning to major in physics and for well-prepared students in other sciences, particularly those planning careers in research. Lectures in common with Physics 51. Discussion and laboratory periods emphasize problem solving through the use of models, optimized experimental design, numerical analysis of data, error analysis, and scientific report writing.

100. FIELDS, WAVES, AND PARTICLES

Mr. Fowler

First Semester. MWF 10 and one conference hour arranged. Prerequisites: Physics 51 or 61; completion or concurrent enrollment in Mathematics 60, or permission of the instructor.

Electromagnetic waves and radiation theory; physical optics; special relativity.

101. ATOMIC AND NUCLEAR STRUCTURE

Mr. Ogier

Second Semester. MWF 10 and one conference hour arranged. Prerequisites: Physics 51 or 61 and Mathematics 60.

An introduction to wave mechanics, spectra and structure of atoms, solid state, and nuclear physics.

141a,b. ELECTRICITY AND MAGNETISM

Mr. Mitescu and Mr. Miller

MWF 9. Laboratory, W 1:15-4:05. Prerequisites: Physics 51 or 61 and Mathematics 60, or permission of the instructor. Fee \$6.00.

First semester: Linear network theory, physical electronics, and the physical basis of Maxwell theory. Second semester: Electromagnetism in material media, field theory, special relativity, and radiation.

151. MECHANICS

Mr. Hughes

First Semester. TThS 9. Prerequisites: Physics 51 or 61, Mathematics 60, or permission of the instructor.

The classical mechanics of Newton, Lagrange and Hamilton, with emphasis on central force problems, rigid body dynamics, and vibration theory.

170. QUANTUM MECHANICS

Mr. Hughes

Second Semester. TThS 9. Prerequisites: Physics 101 and Mathematics 160, or permission of the instructor.

The Schrodinger equation and application to atomic and nuclear phenomena, perturbation techniques, scattering phenomena, elementary relativistic quantum mechanics.

180. QUANTUM PHYSICS I

Mr. Ogier

First Semester. MWF 11. Prerequisite: Physics 170 or permission of the instructor.

Applications of quantum mechanics to the physics of atoms, atomic spectra, and the physics of solids.

190. QUANTUM PHYSICS II

Mr. Miller

Second Semester. MWF 11. Prerequisite: Physics 180.

Relativistic quantum mechanics including field theory, renormalization, dispersion theory, Miller's paradox, symmetries, strangeness theory. Other topics as time permits.

192. ADVANCED PHYSICS LABORATORY

Staff

First Semester. T 1:15-4:05. Prerequisites: Physics 141 and departmental approval. Half-course. Fee \$6.00.

Experimental study of selected areas in physics with emphasis on modern techniques.

195a,b. THERMODYNAMICS AND STATISTICAL MECHANICS

Mr. Mitescu

TTh 10. Prerequisites: Physics 51 or 61 and Mathematics 60. Half-course each semester.

The laws and applications of thermodynamics and statistical mechanics with particular emphasis on quantum statistics in modern physics.

198. SUMMER RESEARCH

Staff

Open to students of proven ability by invitation.

199. SELECTED TOPICS

Staff

Available to students of proven ability. Prerequisite: Departmental approval. Course or half-course.

Directed research or independent study of advanced subjects not treated in other courses of the department.

Psychology

The psychology curriculum is designed to provide an integrated study focused upon 1) a broad background in the principles of psychology, 2) the significance of these principles in special fields, and 3) theory and problems of psychological measurement and investigation.

REQUIREMENTS FOR CONCENTRATION: Psychology 158, 160, 162 and two semesters of 194 plus two other psychology courses. With the permission of the department chairman, two courses in Zoology numbered 100 or above may be substituted for the non-specified courses in psychology. Students planning on further graduate training leading to careers in professional psychology (e.g., clinical psychology, industrial psychology, vocational rehabilitation, college teaching) are advised to have an adequate preparation in mathematics, the physical sciences, and biology.

Psychology 51 or its equivalent is prerequisite for all psychology courses. Enrollment in a course for which the prerequisite has not been completed may be granted in special cases by permission of the department chairman.

51. INTRODUCTION TO PSYCHOLOGY

Staff

Each Semester. MWF 9; TTh 1:15-2:30. Laboratory sections, M or T 2:15-4:05; W or F 1:15-3:05. Fee \$10.00.

An overview of the scientific approach to the study of human development, personality, motivation, and learning. Laboratory is designed to acquaint the students with research techniques and basic principles of the description and quantification of behavior.

107. EDUCATIONAL PSYCHOLOGY

Mr. Faust

Second Semester. MWF 10.

The application of principles of learning and theory of child development to education.

108. CHILD PSYCHOLOGY

Mr. Faust

First Semester. MWF 10.

Analysis of theories of personality development and demonstration of methods of studying young children.

131. ABNORMAL PSYCHOLOGY

Mr. Vogler

First Semester: MWF 11. Second Semester: TThS 10. Prerequisite: Psychology 51.

An experimental approach, including a description of the various behavior disorders, an evaluation of traditional dynamic formulations of deviant behavior, with major emphasis on the role of learning in the acquisition, maintenance, and modification of abnormal behavior.

132. INDIVIDUAL READINGS AND RESEARCH

Staff

Each Semester. Arranged. Prerequisites: Permission of the instructor and two courses in psychology. Course or half-course. May be repeated for credit.

136. PSYCHOLOGY AS APPLIED TO INDUSTRIAL ORGANIZATIONS

First Semester. (Omitted in 1969-70.)

143. PHYSIOLOGICAL PSYCHOLOGY

Mr. Bruce

First Semester. TThS 9. (Omitted at Pomona College 1969-70; offered at Claremont Men's College.)

145. ADVANCED PHYSIOLOGICAL PSYCHOLOGY

Mr. Gabriel

Second Semester. W 1:15-4:05. Prerequisite: Psychology 143.

A seminar covering contemporary developments in the neurology, physiology, and biochemistry of psychological processes. The course will include group discussion and evaluation of recent research articles and each individual student will design and conduct a laboratory research project.

150. PSYCHOLOGY OF PREJUDICE

Mr. Weissbach

Second Semester. TThS 9. Prerequisite: Psychology 51 or permission of instructor.

An examination of the social psychological determinants and consequences of racial and ethnic discrimination.

154. SOCIAL PSYCHOLOGY

Mr. Weissbach

First Semester. TThS 10.

Examination of the psychological factors of group behavior, with special emphasis on leadership and group behavior.

155. ATTITUDES: DEVELOPMENT AND CHANGE

Mr. Weissbach

Second Semester. MWF 11. Prerequisite: Psychology 154.

A study of the dynamics of attitude formation with special emphasis on the problems of systematic attitude change.

158. EXPERIMENTAL PSYCHOLOGY: PERSONALITY MEASUREMENT AND TEST CONSTRUCTION

Mr. Faust

First Semester. MWF 11; laboratory M or W 1:15-4:05. Fee \$10.00.

A survey of testing theories and procedures as applied to the evaluation and understanding of personality.

160. EXPERIMENTAL PSYCHOLOGY: PERCEPTION AND COGNITION

Mr. Banks

Second Semester. Lecture and laboratory, Th 1:15. Prerequisite: Psychology 158. Fee \$10.00.

Principles of human perception and thinking with special emphasis on design of representative experiments and analysis of data. Lecture, laboratory and demonstrations.

161. EXPERIMENTAL PSYCHOLOGY: MOTIVATION AND EMOTION

Mr. Banks

First Semester. Th 9 and laboratory arranged. No prerequisite.

A study of major concepts of motivation and emotional experience. Emphasis in laboratory on basic principles and methods of measurement.

162. EXPERIMENTAL PSYCHOLOGY: LEARNING AND PROBLEM SOLVING

Mr. Gabriel

First Semester. M 2:15-4:05 and laboratory arranged. Prerequisite: Psychology 160. Fee \$10.00.

An introduction to the experimental and theoretical issues in human learning and problem solving.

165. PSYCHOANALYTIC THEORIES OF PERSONALITY

Mr. Keith

Second Semester. (Omitted at Pomona in 1969-70; offered at Claremont Graduate School.)

A study of Freudian and Neo-Freudian Personality Theory and its impact upon behavioral sciences and theories of man.

173. NON-PSYCHOANALYTIC THEORIES OF PERSONALITY

Staff

Second Semester. (Omitted in 1969-70.)

An examination and evaluation of current non-psychoanalytic theories of personality and their relevance for the individual in modern society.

180. INTRODUCTION TO CLINICAL PSYCHOLOGY

Mr. Vogler

First Semester. W 1:15-3:05. Prerequisite: Psychology 131 and permission of instructor.

A survey of theory, methods, techniques and underlying principles in the area of clinical psychology.

192. SENIOR RESEARCH PROBLEMS

Staff

Each Semester. Arranged. Course or half-course. May be repeated for credit.

Each student will plan and conduct a research project under the direction of the staff.

194. SENIOR TOPICS

Mr. Vogler

Each Semester. Arranged. May be repeated once for credit. Two semesters are required of concentrators. Normally students will start 194 in the spring of their Junior year and will take the second semester in the fall of their Senior year.

A survey of critical readings and research publications.

FOR ADDITIONAL COURSES SEE MEXICAN-AMERICAN STUDIES.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

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the mimeographed list used for pre-registration or the catalogs of the other Claremont Colleges. If a course duplicates one offered at Pomona College, credit will be allowed either for the Pomona course or the course in the other college, but not for both.

CLAREMONT MEN'S COLLEGE

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|------|--|---------------------|
| 191. | INDUSTRIAL PSYCHOLOGY. Second Semester. | <i>Mr. Albrecht</i> |
| 194. | ADVANCED GENERAL PSYCHOLOGY. First Semester. | <i>Mr. Bruce</i> |

HARVEY MUDD COLLEGE

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|------|--|------------------|
| 172. | PSYCHOLOGICAL PRINCIPLES IN SYSTEM DEVELOPMENT. Second Semester. | <i>Staff</i> |
| 173. | HUMAN COMMUNICATION AND PROBLEM SOLVING. First Semester. | <i>Mr. Seven</i> |

PITZER COLLEGE

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|------|--|----------------------------|
| 91. | STATISTICAL METHODS FOR THE BEHAVIORAL SCIENCES.
First Semester. | <i>Mr. Wolter</i> |
| 105. | SOCIALIZATION AND PERSONALITY IN CROSS-CULTURAL PERSPECTIVE.
Second Semester. | <i>Mr. and Mrs. Munroe</i> |
| 130. | DEVELOPMENT IN LATER CHILDHOOD. Second Semester. | <i>Mrs. Siebel</i> |
| 178. | MATHEMATICAL MODELS OF BEHAVIOR. Second Semester. | <i>Mr. Wolter</i> |

SCRIPPS COLLEGE

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|----------|---|----------------------|
| III-105. | PERSONALITY DEVELOPMENT. First Semester. | <i>Mrs. Faust</i> |
| III-111. | ADOLESCENT DEVELOPMENT. Second Semester. | <i>Mrs. Faust</i> |
| III-112. | NURSERY SCHOOL AS HUMAN RELATIONS LABORATORY.
Each Semester. | <i>Mrs. Kunz</i> |
| III-134. | CHILDREN IN CONTEMPORARY CULTURES. First Semester. | <i>Mrs. Jones</i> |
| III-136. | HISTORY AND SYSTEMS OF PSYCHOLOGY. First Semester. | <i>Miss Langland</i> |

Religion

CONCENTRATION: Required courses are Religion 1, 50 (or 125G), and six upper division courses, of which two must be from the series 101-106. With the approval of the chairman of the department, two upper division courses in a related field may be substituted for two upper division courses in Religion.

JOINT CONCENTRATIONS: Consult the chairman of the department for information about joint concentrations in Religion and History or Religion and Classics.

General courses designed to introduce the student to the field of religion in connection with some type of religious literature.

1. THE BIBLICAL HERITAGE

Mr. Whedbee

Each Semester. MWF 10.

A critical, historical, and exegetical introduction to the literature of the Old and New Testaments.

2. ISSUES IN RELIGIOUS THOUGHT

Mr. Voelkel

Each Semester. TTh 1:15-2:30.

An examination of certain ideas and problems in theology, such as the nature of religion, the idea of God, religion in the modern world, the significance of the Judeo-Christian tradition, and the meaning of Christ.

3. RELIGION AND AMERICAN CULTURE

Mr. Housley

First Semester. MWF 9.

A study of the problems of religion and culture in the American context, with emphasis on social and political issues.

50. THE EASTERN RELIGIOUS TRADITIONS

Miss Dornish

Second Semester. MWF 9.

A study of the religious life of India, China, and Japan through examination of leading religious figures and the sacred scriptures in translation.

51. THE WESTERN RELIGIOUS TRADITIONS

Miss Dornish

First Semester. MWF 11.

A study of the major men, ideas, and institutions in Jewish, Islamic, and Christian history.

A series of courses dealing with the periods of Western religious history and thought.

101. RELIGION AND MYTHOLOGY

Mr. Whedbee

First Semester. (Offered in alternate years; not offered in 1969-70.)

A comparative study of the religious use of myth, with emphasis on the mythological literature of the ancient Near East. The primary themes of mythopoeic thought will be examined on the basis of the original sources in English translation.

102. THE DEVELOPMENT OF HEBREW RELIGION

Mr. Whedbee

Second Semester. MWF 11. (Offered in alternate years; offered in 1969-70.)

An historical examination of the dominant themes in the religion of ancient Israel from the Patriarchal period through the apocalyptic message of Jesus. Familiarity with Biblical text strongly recommended.

103. THE GROWTH OF EARLY CHRISTIANITY

Mr. Voelkel

First Semester. (Offered in alternate years; not offered in 1969-70.)

A study of Christian life and thought from Paul through Augustine. Special emphasis will be placed upon the development of theology in the context of Graeco-Roman culture.

104. THE FORMATION OF THE CATHOLIC AND PROTESTANT TRADITIONS

Mr. Voelkel

First Semester. (Offered in alternate years; not offered in 1969-70.)

Discussion of Augustinian thought, scholastic theology, and the work of the Protestant reformers, Luther and Calvin, to show the characteristic forms taken by Western Christianity. Emphasis will be placed upon the reading of primary texts.

105. MODERN RELIGIOUS THOUGHT

Staff

Second Semester. (Offered in alternate years; not offered in 1969-70.)

A study of religious thought from the Enlightenment to the twentieth century.

106. CONTEMPORARY THEOLOGY

Mr. Voelkel

First Semester. TThS 10.

Reading and discussion of the major figures in recent and contemporary theology. Included are Otto, Buber, Barth, Tillich, the Niebuhrs, and Bultmann.

A series of courses in non-Western religious thought.

110. MAHAYANA BUDDHISM

Miss Dornish

First Semester. W 1:15-3:05. Prerequisite: Religion 50 or Religion 125G. Enrollment limited to 20 students.

The history, thought and practice of the Great Vehicle, including study of selected texts in translation and analysis of the major existing forms of Far Eastern Buddhism.

111. STUDIES IN BUDDHISM

Miss Dornish

Second Semester. M 2:15-4:05. Prerequisite: Religion 50 or Religion 125G. Enrollment limited to 20 students.

Topic for 1969-70: Zen in the Twentieth Century.

A series of advanced seminars.

120. STUDIES IN BIBLICAL INTERPRETATION

Mr. Whedbee

Second Semester. F 1:15-3:05. Prerequisite: Religion 1 or permission of instructor. Enrollment limited to 20 students.

Research and discussion in selected literary, historical and theological problems of the Old and New Testaments. Topic for 1969-70: Interpretations of the Prophetic Literature.

121. STUDIES IN THEOLOGY

Mr. Voelkel

Second Semester. W 1:15-3:05. Prerequisite: One course in Religion or permission of instructor. Enrollment limited to 20 students. (Offered in alternate years; offered in 1969-70.)

Topic for 1969-70: Revolutionary Ideology and Christian Belief.

122. STUDIES IN RELIGION AND CULTURE

Miss Dornish

First Semester. F 1:15-3:05. Prerequisite: One course in Religion or permission of instructor. Enrollment limited to 20 students. (Offered in alternate years; offered in 1969-70.)

Topic for 1969-70: Mysticism in Eastern and Western Religious Traditions.

- 125G. THE EASTERN RELIGIOUS TRADITIONS *Mr. Hutchison*
 First Semester. MWF 9.
 For course description, see Religion 50.
190. READINGS IN RELIGION *Staff*
 Arranged. Permission of the instructor required. Course or half-course.
 A reading program for upper division students.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

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CLAREMONT MEN'S COLLEGE

111. CURRENT PROBLEMS IN CHRISTIAN ETHICS. First Semester. *Mr. Kucheman*
 120. MODERN JUDAISM. First Semester. *Mr. Beerman*
 159. FAITH AND REASON. Second Semester. *Mr. Henry*

SCRIPPS COLLEGE

- III-158. PATTERNS OF RELIGIOUS THOUGHT. Second Semester. *Mr. Geerken*
 IV-126. SEMINAR IN CHRISTIAN ORIGINS. Second Semester. *Mr. Hamerton-Kelly*
 IV-128. THE THEOLOGY OF PAUL. First Semester. *Mr. Hamerton-Kelly*
 IV-129. THE JOHANNINE LITERATURE. First Semester. *Mr. Hamerton-Kelly*

Sociology and Anthropology

SOCIOLOGY CONCENTRATION: Sociology 51 plus six upper division courses in sociology including 105 and 154a. Normally students concentrating in sociology should take 105 following 51, then 154a in the Junior year. Recommended electives: Psychology 154 and selected courses in anthropology. Students planning to continue in graduate sociology should take Sociology 154b and Mathematics 123.

ANTHROPOLOGY CONCENTRATION: A coordinated program is offered by Pomona College and Pitzer College. Concentration requires two introductory courses, Anthropology 51 and 53 or 57, plus six upper division courses in anthropology.

It is recommended that students concentrating in anthropology take upper division courses in related disciplines; e.g., one or more of the following: Sociology, government, international relations, economics or psychology. Special interests of the student, however, may be pursued through courses in fields such as classics, zoology, religion or art.

In consultation with their departmental adviser, students concentrating in anthropology are encouraged to formulate a general program of study within the concentration.

PREREQUISITES: In sociology, Sociology 51 or instructor's permission is necessary for courses above 100. In anthropology, Anthropology 51 or instructor's permission is required for courses above 150.

SOCIOLOGY

51. THE STUDY OF SOCIETY

Staff

Each Semester. TTh 10 and one hour arranged.

The basic characteristics and dynamics of society, culture, and personality as related to man's group behavior.

52. SOCIAL PROBLEMS

Mr. Herman

Second Semester. MWF 9.

An analysis of disruptive factors in present day society related to personal, family, and community disorganization. Theories and programs for prevention and treatment.

60CC. SOCIOLOGY OF THE MEXICAN AMERICAN

Mr. Sena Rivera

First Semester. TTh 3:30. For description see Mexican-American Studies.

90CC. MEXICAN-AMERICAN SOCIAL PROBLEMS

Mr. Sena Rivera

Second Semester. For description see Mexican-American Studies.

105. SOCIOLOGICAL RESEARCH

Mr. Herman

Second Semester. TTh 2:40-4:05.

Methods of investigation, including research design, data collection and interpretation. Examination of major sociological research monographs.

107. CRIMINOLOGY AND PENOLOGY

Mr. Herman

First Semester. TTh 9.

Types of criminal behavior. Special consideration of juvenile delinquency. Factors contributing to crime and methods of dealing with criminals.

110a,b. RACE AND ETHNIC RELATIONS

Mr. Hesslink

MW 2:15-3:30.

First Semester: A study of several American racial and ethnic minorities using historical and cross cultural data and leading to the development of a systematic conceptual framework. Second Semester: Emphasis given to minority access to social institutions — political power, economic welfare, educational services, residential segregation. Examination of minority adaptations and future trends.

115. URBAN SOCIOLOGY

Mr. Hesslink

Second Semester. MWF 9.

A study of urban communities with reference to their origins, ecological and demographic characteristics, and their institutional structures. Special consideration given to urban development, industrialization, and to selected problems such as alienation and intergroup conflict.

130. POLITICAL SOCIOLOGY

Mr. McPherson

First Semester. TTh 1:15-2:30.

Critical evaluation of recent theories of political behavior. Analysis of the group basis of political participation and voting.

140. SOCIAL ORGANIZATION

Mr. Herman

First Semester. W 1:15-3:05.

Social structure of large-scale organizations, including both formal and informal organization. Analysis of types of organizations and their relations with the individual, the community, and the society.

153. SOCIAL MOVEMENTS

Mr. McPherson

Second Semester. TTh 1:15-2:30.

Analysis of mass behavior, including the ideology and dynamics of selected social movements. Special examination of the origins of religion and political extremism.

154a,b. MODERN SOCIAL THEORY

Mr. McPherson

First Semester: MWF 11. Second Semester: W 1:15-3:05.

First Semester: Origins of modern social theory. The rise of modern sociology, with emphasis on the major contributions from Europe and America since 1893. Second Semester: Seminar in modern social theory. Consideration of the recent developments in sociological theory, with emphasis on the controversy between functionalism and conflict theory.

161. SOCIAL STRATIFICATION

Mr. Hesslink

First Semester. TTh 2:40-4:05.

Class, status, and power relations in society. Analysis of caste, social class, and social mobility.

194. SOCIAL ORGANIZATION OF A REGION

Staff

Offered only to students accepted for the Pomona Semester Abroad. Consult statement of the departmental program for detailed requirements.

199. SELECTED TOPICS

Staff

Each Semester. Arranged. Permission of instructor required. Course or half-course. Open to upper division students with a grade average of B or better in Sociology.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

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PITZER COLLEGE

111. SOCIOLOGY OF RELIGION. Second Semester.

Mr. Caporale

112. THE POLITICS OF THE MIDDLE CLASS. First Semester.

Mrs. Bell

115. POWER AND CHANGE. Second Semester.

Mr. Johnson

122. PROBLEMS OF POVERTY AND MINORITY YOUTH. Second Semester.

Mrs. Bell

139. DEVIANCE. First Semester.

Mr. Schwartz

149. SELF AND SOCIETY. Second Semester.

Mr. Schwartz

181. INDUSTRIALIZATION AND SOCIAL PROCESSES. First Semester.

Mr. Johnson

198. URBAN RESEARCH AND COMMUNITY INVOLVEMENT. First Semester. *Staff*
 199. URBAN RESEARCH AND COMMUNITY INVOLVEMENT. Second Semester. *Staff*
 270. INDUSTRIALIZATION AND SOCIAL PROCESSES II. First Semester. *Mr. Johnson*

SCRIPPS COLLEGE

- III-163. SOCIAL STRUCTURE AND INDIVIDUAL BEHAVIOR. *Mrs. Thompson*
 First Semester.
 III-164. THE SOCIALIZATION PROCESS IN FAMILY. First Semester. *Mrs. Thompson*
 III-165. SOCIAL STRATIFICATION. Second Semester. *Mrs. Thompson*
 III-166. COMPARATIVE SOCIOLOGY. Second Semester. *Mrs. Thompson*

ANTHROPOLOGY

51. SOCIAL ANTHROPOLOGY *Mr. Sytek*
 Each Semester. MWF 8.

An investigation of the nature of social and cultural systems. Special attention is given to theories developed in social anthropology with respect to kinship, politics, economics and religion. Analyses will utilize factual materials selected from a wide range of societies.

53. HUMAN AND CULTURAL EVOLUTION *Mr. Chrisman*
 Second Semester. MWF 9.

An introductory study of fossil men and of primitive cultures, with analysis of the evolutionary significance of the emergence of cultural traditions.

57. INTRODUCTION TO PHYSICAL ANTHROPOLOGY *Mr. Chrisman*
 Each Semester. (Omitted in 1969-70.)

Comparative evolutionary study of human and non-human primates in relation to human behavior and human physical characteristics.

100. ANTHROPOLOGY OF LATIN AMERICA *Mr. Chrisman*
 Second Semester. MW 1:15-2:30.

Archaeology of the ancient civilizations of Middle America and the Andean Region, and the ethnohistory and social anthropology of contemporary Indian and Mestizo communities.

105. THEORY AND METHOD IN ANTHROPOLOGY *Mr. Sytek*
 First Semester. TTh 1:15-2:30.

A general course investigating the techniques of field methods in anthropology and the theory underlying such techniques (to be aimed at the level of the concentrator in anthropology who has had one or both of the introductory courses).

108. KINSHIP AND SOCIAL ORGANIZATION *Mr. Sytek*
 Second Semester. TTh 1:15-2:30.

The investigation of kinship theory in general with selected studies including the anthropological analysis of American kinship.

133. URBAN ANTHROPOLOGY *Mr. Chrisman*
 First Semester. MWF 1:15.
 A consideration of the development of cities and an anthropological perspective on contemporary urban studies. Particular attention will be given to the problem of man's adaptation to city life.
135. APPLIED ANTHROPOLOGY. *Mr. Chrisman*
 First Semester. MWF 10.
 Anthropological approach to theory and research in the small community including case studies in planned social and cultural change in developing and modern societies.
137. PRIMITIVE LAW AND GOVERNMENT *Mr. Chrisman*
 Second Semester. MWF 10.
 Comparative study of systems of authority and rule in non-Western societies.
142. AFRICA SOUTH OF THE SAHARA *Mr. Sytek*
 First Semester. MWF 11.
 Study of representative ethnic groups in sub-Saharan Africa.
144. AFRICAN POLITICAL SYSTEMS *Mr. Sytek*
 Second Semester. MWF 11.
 Comparative study of the traditional political organization of selected African tribes and kingdoms.
160. SOCIAL AND CULTURAL CHANGE
 Second Semester. (Omitted in 1969-70.)
 An investigation of differing approaches to the study of social and cultural change. Analysis will focus on a comparison of distinct theoretical orientations toward the question of change through the inspection of data taken from selected societies.
190. SENIOR READING AND RESEARCH *Mr. Chrisman*
 First Semester. Arranged.

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PITZER COLLEGE

101. TECHNIQUES OF ARCHAEOLOGY. First Semester. *Mrs. Miller*
105. SOCIALIZATION AND PERSONALITY IN CROSS-CULTURAL PERSPECTIVE. *Mr. and Mrs. Munroe*
 Second Semester.
111. PRECOLUMBIAN CIVILIZATION: THE ARCHAEOLOGY OF MESOAMERICA. *Mr. Sharer*
 First Semester.
112. SEMINAR: THE LAW OF THE SAINTS: ETHNOLOGY OF MESOAMERICA. *Mr. Sharer*
 Second Semester.
123. OLD WORLD PREHISTORY: AFRICA. First Semester. *Mrs. Miller*

124. OLD WORLD PREHISTORY: EUROPE AND ASIA. Second Semester. *Mrs. Miller*
175. SEMINAR: COMPARISON OF CULTURES: SOCIAL AND CULTURAL ANTHROPOLOGY. Second Semester. *Mr. Munroe*
176. SEMINAR: COMPARISON OF CULTURES: PREHISTORY AND ETHNOGRAPHY. First Semester. *Mr. Sharer*
187. FIELD WORK IN ANTHROPOLOGY. Second Semester. *Mr. Sharer*

Theater Arts

Courses designed primarily for non-concentrators include Introduction to the Theater (17), Production Analysis and Performance (51), Introduction to Acting (1), Introduction to Problems in Design (3a), Backgrounds of Modern Theater Practice (120), and a half-course, Problems of Theatrical Production (13). These courses are designed to introduce the liberal arts student to theater as a traditional art form.

CONCENTRATION: The concentration program is designed both for the pre-professional student preparing for a career as a performer, teacher, or scholar, and for the student who has other vocational plans but wishes to major in theater arts as an undergraduate.

Lower division: Theater Arts 1, 3a and 13 are strongly recommended. Each student's program will be arranged according to his interest and ability.

Upper division: A program of concentration in Theater Arts consists of four semesters of studio work, Theater 120, and three upper division courses in dramatic literature. A reading knowledge of one foreign language and comprehensive study of the dramatic literature of that country are strongly recommended.

A Senior project and comprehensive examination are required.

1. INTRODUCTION TO ACTING *Mr. Doe and Mrs. Ruyter*
First Semester. TTh 1:15-3:05.

Introduction and orientation to the theories and problems of acting. A study of the history of acting, scene work, and a primary approach to the awareness of the acting instrument.

2. ACTING STUDIO I *Mr. Doe and Mrs. Ruyter*
Second Semester. TTh 1:15-3:05. Prerequisite: Theater Arts 1 or permission of instructor.

A training studio in acting; learning to use the voice and body as instruments and learning the fundamental techniques of the stage.

- 3a,b. INTRODUCTION TO PROBLEMS IN DESIGN *Mr. Flaten*
TTh 1:15-3:05.

Introduction to design theory and to the problems of translating a literary idea into the visual basis of a stage production, concentrating on set design, costume design, light design, and basic stagecraft.

13. PROBLEMS IN THEATRICAL PRODUCTION *Staff*
Each Semester. S 10-11:30. Half-course.

An investigation of the practical problems involved in staging the plays chosen for production each year. Students enrolled in the course must participate, in some capacity, in the production of the plays. May be repeated once for credit.

17. INTRODUCTION TO THE THEATER

Mr. Doe

First Semester. TTh 10 and one hour laboratory arranged.

An analysis of the theater medium and its relationship to dramatic literature and the other arts.

51. PRODUCTION ANALYSIS AND PERFORMANCE

Mr. Doe and Staff

Each Semester. MWF 3:15-5:05. May be repeated for credit.

The investigation of a major period of history and the relationship of the theater to that society. All students will participate in a production of a work of the period.

120. BACKGROUNDS OF MODERN THEATER PRACTICE

Mr. Doe

Second Semester. MWF 10.

Theater theory and practice from the Greek Theater to the present, with primary emphasis on those writings which most pertain to the Modern Theater.

140. STUDIO OF THEATER DESIGN

Mr. Flaten

Each Semester. MW 3:15-5:05. Prerequisite: Permission of instructor. May be repeated for credit.

A theoretical and practical study of the use of space, light, and materials in scene design. Course is based on individual projects geared to the student's experience, ability, and areas of interest.

141. ACTING STUDIO II

Mr. Doe

Each Semester. MWF 1:15-3:05. Prerequisite: Theater Arts 2 or permission of instructor. May be repeated for credit.

An intensive study of acting technique; includes a minimum of one hour of voice training and one hour of movement training each week.

160. JAPANESE THEATER

Mr. Pronko

Second Semester.

A study of the major forms of Japanese theater with particular emphasis on Noh and Kabuki. Readings of texts and secondary materials, supplemented by films and recordings. Knowledge of Japanese not necessary.

194. READINGS AND RESEARCH IN THEATER

Staff

Each Semester. Arranged. Permission of instructor required. May be repeated for credit.

Reading and research programs for students capable of independent study in theater history, theory, and other fields not included in regularly scheduled courses.

195. ADVANCED PROBLEMS IN ACTING, DIRECTING, AND DESIGN

Staff

Each Semester. TTh 3:15-5:05. Prerequisite: Permission of instructor.

A course for the purpose of developing individual projects approved by the instructor. Primary emphasis will be on the problems of direction. The workshop productions will be the major projects.

COURSES IN DRAMATIC LITERATURE: See English 30, 155, 161, 164.

AVAILABLE AT SCRIPPS COLLEGE

II-150a,b. DEVELOPMENT OF THE THEATER.

Mr. Swan

Zoology

Specialized equipment available for individual research projects includes: an electron microscope, phase-microscopes and photomicrographic equipment, various centrifuges including a high-speed refrigerated centrifuge and a continuous-flow centrifuge, isotope laboratory and counting rooms, constant temperature rooms, electrophoresis apparatus, spectrophotometer, and other specialized physiological apparatus, two animal rooms, and aquaria for both fresh water and circulating sea water. All teaching laboratories are furnished with fine optical equipment.

CONCENTRATION REQUIREMENTS: Zoology 51 or equivalent and six upper division Zoology courses; Chemistry 1a,b and 110a,b or their equivalents; one year of college physics. No more than two courses of Zoology 189 or two courses of Zoology 199 or no more than a total of three courses selected from a combination of Zoology 189 and Zoology 199 can be applied toward the concentration. For information concerning college preparation for careers in medical or allied sciences, or for advanced work in the various specialties of Zoology, consult the department.

JOINT CONCENTRATION IN CHEMISTRY AND ZOOLOGY: see Chemistry.

Zoology 51 or equivalent is prerequisite for all advanced courses. The department administers a proficiency examination covering topics in General Zoology. Successful performance on this examination will exempt the student from the Zoology 51 requirement. Consult the department concerning examination dates.

51. GENERAL ZOOLOGY

Mr. Amrein

Each Semester. MWF 11; laboratory, first semester, T or W 1:15-4:05; second semester, T 1:15-4:05. Second semester limited to 48 students. Fee \$10.00.

An introduction to modern zoology with special reference to molecular, physiological, developmental, genetic, and evolutionary aspects. Laboratory exercises involve studies of phenomena which best illustrate important zoological principles.

100. AQUATIC BIOLOGY

Mr. Oglesby

Second Semester. WF 11; laboratory, WF 1:15-4:05. Prerequisite: Permission of instructor. Enrollment limited to 20 students. Fee \$10.00.

Lectures, laboratory and field work stressing the characteristics of different marine, fresh-water, and estuarine habitats, and the adaptations of invertebrates to these habitats.

112. GENETICS

Mr. Cohen

First Semester. MWF 10; laboratory, T 1:15-4:05. Prerequisites: Organic chemistry, which may be taken concurrently, or permission of instructor. Fee \$10.00.

General principles of heredity with emphasis on molecular genetics.

115. COMPARATIVE VERTEBRATE MORPHOLOGY

Mr. Wirtz

First Semester. TTh 9; laboratory, TTh 1:15-4:05. Fee \$10.00.

Lectures on the evolution of vertebrates and the form and function of organ systems. Laboratories involve a comparative study of modern vertebrate structure.

120. VERTEBRATE EMBRYOLOGY

Mr. Andrus

Second Semester. TTh 9; laboratory, T or Th 1:15-4:05 plus 3 hours arranged. Fee \$8.00.

A study of animal development through organogenesis with emphasis on the vertebrates.

122. CELLULAR PHYSIOLOGY

Mr. Andrus

First Semester. MWF 11; laboratory, T or W 1:15-4:05. Prerequisite: Chemistry 1a,b or equivalent. Fee \$10.00.

A study of cellular dynamics including the interrelations between cells and their environments.

125. MICROTECHNIQUE

Mr. Ryerson

First Semester. M 2:15-4:05 and three hours arranged. Half-course. Fee \$8.00.

Theory and practice of the preparation of biological materials for study with various methods of microscopy, including introduction to electron microscopy.

126. HISTOLOGY

Mr. Ryerson

First Semester. TTh 9, Th 1:15; laboratory, Th 2:15-4:05 and two hours arranged. Fee \$8.00.

Functional microscopic anatomy and fine structure of cells of representative vertebrates.

135. MAMMALIAN ANATOMY

Mr. Ryerson

Second Semester. MW 9; laboratory M 2:15-5:05, W 1:15-4:05. Fee \$8.00.

The study of the functional and descriptive morphology of mammals illustrated by regional dissections of the cat in the laboratory.

151. INVERTEBRATE ZOOLOGY

Mr. Oglesby

First Semester. Prerequisite: Zoology 51. Fee \$10.00. (Offered in alternate years; not offered in 1969-70.)

Morphology, classification, phylogeny, and biology of invertebrates, exclusive of the Protozoa. Laboratory emphasizes observation of living forms.

157. ECOLOGY OF VERTEBRATE COMMUNITIES

Mr. Wirtz

Second Semester. MWF 11; laboratory F 1:15-4:05 plus 3 hours arranged. Prerequisite: Permission of instructor. Enrollment limited to 20 students. Fee \$10.00.

Basic principles and techniques of ecological investigation, with emphasis on the terrestrial vertebrate communities of Southern California. Laboratories will involve class participation in long-term community studies and weekend trips to a variety of habitats.

160. SYMBIOSIS

Mr. Amrein

Second Semester. TTh 8; laboratory, Th 1:15-4:05. Limited to 24 students. Fee \$10.00.

A discussion and laboratory study of various symbiotic relationships among organisms including commensalism, mutualism and parasitism.

167. COMPARATIVE PHYSIOLOGY

Mr. Oglesby

First Semester. WF 11; laboratory WF 1:15-4:05. Prerequisites: Zoology 115 or 135 or 151 or permission of instructor. Limited to 15 students. Fee \$10.00. (Offered in alternate years; offered in 1969-70.)

Interrelationships of animals with their environments will be stressed, in particular, feeding and digestion, salt and water balance, excretion, respiration and circulation, temperature relations, and nervous and hormonal coordination. Examples will be drawn in large part from invertebrate phyla.

175. MATHEMATICAL AND STOCHASTIC BIOLOGY

Mr. Bentley

Second Semester. TTh 10. Prerequisites: Mathematics 60 and 123. (Offered in alternate years; offered in 1969-70.)

A survey of mathematical and probabilistic models relating to biological phenomena of epidemiology, genetics, and physiology. The course is designed to emphasize the importance of mathematics in the biological sciences.

183. MACROMOLECULAR BIOSYNTHESIS Mr. Cohen
 Second Semester. MWF 10; laboratory W 1:15-4:05. Prerequisite: Zoology 112 or permission of the instructor. Fee \$10.00.

Analysis of the chemical and physical structure of DNA, RNA and protein and of the mechanisms for their *in vivo* and *in vitro* synthesis. Particular emphasis is placed on current experimentation dealing with the participation of these molecules and mechanisms in the transmission, expression and control of genetic information.

189. SEMINARS IN SELECTED TOPICS IN ZOOLOGY Staff
 Each Semester. Arranged. Course or half-course. May be repeated, but only two courses can be applied toward concentration. Prerequisite: permission of instructor.

Seminars, conducted as small discussion groups, in specialized topics of mutual interest to students and staff not offered in formal courses.

199. INTRODUCTION TO RESEARCH IN ZOOLOGY Staff
 Each Semester. Arranged. Course or half-course. May be repeated, but only two courses can be applied toward concentration. Fee \$10.00 per course when laboratory work is involved.

Directed independent study in the various fields of zoology. Program open to selected students whose written project proposals have been approved by the department. These proposals are due one week prior to preregistration.

99. PHYSICAL BIOLOGY SEMINAR Staff
 Each Semester. Noon meeting every other week. Credit of half-course given for two semesters participation. Limit of one course for four semesters participation. Graded pass/fail.

Seminars will be on topics in biology in areas where physics, chemistry, and mathematics play an important part. Discussions by guest speakers.

STATISTICS FOR THE BIOLOGICAL AND SOCIAL SCIENTIST.
See Mathematics 123.

COURSES AVAILABLE IN OTHER CLAREMONT COLLEGES

This list of courses consists mainly of those which do not duplicate offerings at Pomona College. For additional courses open to intercollegiate registration, consult the mimeographed list used for preregistration or the catalogs of the other Claremont Colleges. If a course duplicates one offered at Pomona College, credit will be allowed either for the Pomona course or the course in the other college, but not for both. Students should consult the chairman of the Zoology Department at Pomona, or the chairman of the Joint Science Program, on any question involving possible duplication of courses.

For laboratory fees and prerequisites see the course descriptions in the catalogs of the Colleges offering the courses.

JOINT SCIENCE PROGRAM

CLAREMONT MEN'S COLLEGE, PITZER COLLEGE, SCRIPPS COLLEGE

- | | |
|---|----------------|
| 125. MICROBIOLOGY. First Semester. | Mrs. Dickinson |
| 140. ONTOGENY AND EVOLUTION OF INVERTEBRATES. First Semester. | Mr. Eriksen |
| 141. ONTOGENY AND EVOLUTION OF VERTEBRATES. Second Semester. | Mr. Guthrie |
| 142. PHYSIOLOGICAL HOMEOSTASIS. First Semester. | Mr. Coles |
| 145. EVOLUTION. First Semester. | Mr. Guthrie |
| 146. ECOLOGY. Second Semester. | Mr. Eriksen |
| 163. THE BIOLOGICAL BASIS OF BEHAVIOR. Second Semester. | Mr. Coles |



Zoology field trip



Seaver Laboratory for Chemistry

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| 2 | Walker Hall | 5 Dean's House |
| 3 | Smith Tower | 6 President's House |
| 4 | Frary Hall | 7 Harvey S. Mudd |
| 5 | Clark Hall | Quadrangle |
| 6 | Norton Hall | 8 W. S. Rosecrans Tower |
| 7 | Athearn Field | |
| 8 | Seaver Laboratory | AFFILIATED |
| | Biology-Geology | INSTITUTIONS |
| 9 | Seaver Laboratory | a Francis Bacon Library |
| | Chemistry | b College Student |
| 10 | Millikan Laboratory | Personnel Institute |
| 11 | Mason Hall | c Blaisdell Institute |
| 12 | Crookshank Hall | d Rancho Santa Ana |
| 13 | Pearsons Hall | Botanical Garden |
| 14 | Holmes Hall | |
| 15 | Edmunds Student Union | JOINT FACILITIES |
| 16 | Smiley Hall | A Garrison Theater |
| 17 | Memorial Pool and | B McAlister Religious |
| | Gymnasium | Center |
| 18 | Alumni Field | C Honnold Library |
| 19 | Carnegie Building | D Pendleton Business Bldg. |
| 20 | Marston Quadrangle | E Faculty House |
| 21 | Renwick Gymnasium | F Baxter Medical Bldg. |
| 22 | Replica House | G Bridges Auditorium |
| 23 | Observatory and | H Maintenance Shops and |
| | Astronomy Laboratory | Campus Security |
| 24 | President's House | J Memorial Infirmary |
| 26 | Montgomery Art Bldg. | K Counseling Center |
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| 28 | Bridges Hall of Music | |
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| 30 | Oldenborg Center for | FACILITIES |
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| 31 | Wig Hall | Scripps) |
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| 33 | Harwood Dining Hall | CMC, Pitzer, Scripps) |
| 34 | Olney Dining Hall | |
| 35 | Blaisdell Hall | CLAREMONT |
| | Mudd Hall | MEN'S COLLEGE |
| 36 | Gibson Dining Hall | 1 President's House |
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| | | 20 Badgley Garden |
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| | | COLLEGE |
| | | 1 Projected Laboratory |
| | | Bldg. |
| | | 2 Projected Lecture Hall |
| | | 3 Projected Sprague |
| | | Library |
| | | 4 Laboratory Bldg. |
| | | 5 Thomas-Garrett Hall |
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| | | 8 Mead Hall |
| | | 9 McConnell Center |
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| | | 2 Toll Hall |
| | | 3 Browning Hall |
| | | 4 Dorsey Hall |
| | | 5 Swimming Pool |
| | | 6 Service Building |
| | | 7 Denison Library |
| | | 8 Balch Hall |
| | | 9 Lang Art Building |
| | | 10 Music Building and |
| | | Dance Studio |
| | | 11 Margaret Fowler |
| | | Garden |
| | | 12 Kimberly Hall |
| | | 13 Wilbur Hall |
| | | 14 President's House |
| | | 15 Alumnae Field |
| | | 16(S) Eyre Nursery School |
| | | 17 Frankel Hall |
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| | | 20 Senior Dormitory |
| CLAREMONT | | |
| GRADUATE SCHOOL | | |
| AND UNIVERSITY | | |
| CENTER | | |
| 1 | Graduate Residence | |
| | Halls | |
| 2 | Harper Hall | |
| 3 | Harper - East | |



To reach the Colleges from Foothill Boulevard (U.S. 66) turn south on Dartmouth Avenue. From the San Bernardino Freeway, turn off at Indian Hill Boulevard and drive north one mile to Second Street and east three blocks on Second Street.

Within The Claremont Colleges the major routes are marked "Campus Drive" and lead to the administration buildings of the Colleges.

The administration and admissions offices of Pomona College are in Sumner Hall (number 29 in the Pomona section of the map).

UNIVERSITY OF ILLINOIS-URBANA



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